FATHEOUT A NE

ACCOUNT

banieras via OF THE

DISEASES

Which were most frequent in the

BRITISH MILITARY HOSPITALS in German

From January 1761 to the Return of the Troops to England in March 1763.

To which is added,

An ESSAY on the Means of Preserving the Health of Soldiers, and conducting Military Hospitals.

By DONALD MONRO, M.D.

PHYSICIAN to his MAJESTY'S ARMY, and to St. George's Hospital.

LONDON:

Printed for A. MILLAR, D. WILSON, and T. DURHAM, in the Strand; and T. PAYNE, at the Mer. Gate.

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for every Officer and Solfice

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May it please Your Majesty,

To permit me to lay at your Feet the following Sheets, published with a View to be useful to those, who hereaster may have the Care of the Health of your Majesty's Troops.

A 2

Your

iv DEDICATION

Your Majesty's particular Inquiries into the State of Your Military Hospitals, in every Quarter of the World, in the Time of the late glorious and fuccessful War; Your Concern for every Officer and Soldier who fuffered either by Sickness or by Wounds in the Cause of their King and Country; and Your Solicitude to procure them every possible Assistance and Relief, cannot fail to excite the highest Admiration of Your Majesty's Goodness in the Breaft Month

Breaft of every Subject, and the warmest Gratitude in the Heart of every Soldier. Quarte and whele woldingethe

THE Knowledge of these Circumstances induced me to flatter myself, that a Work of this Kind would be agreeable to Your MAJESTY; and should this Ate tempt towards pointing out the Means of alleviating those Miferies, which necessarily attend a Military Life in the Time of Service, be acceptable, I shall obtain the utmost of my Wishes; Breaft

vi DEDICATION.

of my Heart ever so to act as to merit Your Majesty's Approbation, and to subscribe myself,

May it please Your Majesty,

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Your Majesty's most dutiful Subject,

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PREFACE.

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A MONG the numerous Authors of Observations in the Art of Physick, there are but sew who have expressly written on the Treatment of those Distempers, most generally incident to an Army in the Field: The following Work, therefore, seems to have a fair Claim to be acceptable to the Publick, having been compiled during the Author's Attendance on the A 4 British

viii The PREFACE.

British Military Hospitals in Germany in the late War; and in order to render it of still further Use, he has occasionally added, by Way of Note, the Practice of some of the most eminent Physicians in similar Diseases, as well as a sew Histories of Cases which passed under his own Care at St. George's Hospital, London.

MONG the numerous Anthons

To avoid the Repetition of the Composition of particular Medicines, and the Interruption that would be given by their being inserted in the Body of the Work, a small Pharmacopæia is added, to which his Practice in the Army Hospitals was chiefly confined.

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In a commercial Country like our own, where Numbers of Hands are constantly wanted for the carrying on our Manufactories, we have a strong political Argument to add to that drawn from the Dictates of Humanity, why the Life of every individual should be most carefully attended to.

The Preservation of the Lives of Soldiers is then with us a Matter of the highest Importance, in order to make as low as possible the Number of Recruits who must be perpetually drawn off for the Service of War. The Author has, therefore, in this Treatife, endeavoured to point out the Means most likely to keep Men healthy when employed

employed in different Services; and also the Manner in which Military Hospitals ought to be fitted up, and conducted.—As he was never in any of the warm Climates, nor ever at Sea along with Troops aboard of Transports, whatever is mentioned relative to such Situations, is to be understood as taken from printed Accounts of these Subjects, or collected from the Conversation of physical Gentlemen, who were employed on such Services during the two last Wars.

It is but Justice here to observe, that the Marquis of Granby, Commander in Chief of the British Troops in Germany, as well as the Rest of the General

dining of waters

General Officers employed on the German Service, always paid the greatest Attention to the Soldiers when fick in Hospitals; and were particularly ready in giving Orders for all fuch Things as were necessary or proper for them.

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A Malignant Fever, and Fluxes, began to appear among the Soldiers in Autumn, 1760, while the Allied Army renained encamped about Warbourg, from the Beginning of August till the 13th of December, when they went into Cantonments. During that Time, there had been a continued Rain for some Months, and the Camp and neighbouring Fields, and Villages, were not only filled with the Excrements of such a numerous Army, but likewise with infinite Numbers of dead Horses, and other dead Animals, which had died in doing the necessary military Duties, and in bringing Forage, Provisions, and other Necessaries,

Necessaries, to the Camp: besides this, the Field where there had been an Action on the 3 little July, and where many of the Dead were scarce covered with Earth, was in the Deighbourhood of the Camp.

Not only the Soldiers, but the Inhabitants of the Country, who were reduced to the greatest Misery and Want, were infected with the Malignant Fever, and whole Villages almost laid waste by it.

Such a Number of Soldiers was fent to Paderborn as crowded the Hospitals there, and increased the Malignancy of the Distemper, fo that a great many died.

When I arrived at Paderbors, in the Beginning of January 1761, the Fever was upon the Decline in the General Hospitals, though it was still rife; but by sending off a Party of Convalescents to Hermonden, which thinned the Hospitals, it became less frequent, and but few died. The Guards marched upon the Expedition into Hesse, on the eleventh of February, which gave us full Room for billetting all our Convalescents, and thinning the Wards, by which Means the

the Period almost entirely ossied in all the hi spirate we had before they were a way babble there fall remained above four hundred first but When the Buards marchied cour of Posts born, they left the Care lof their Sick to a who helonged to the General Hospitals the first Regiment of Counts left day slick; the shirts menty-him the shirts mentytight, and the Granadiers, fifteen, in their regimental Informaries, who were mostly all of the Malignant Fever amongst whom the Infection was to very fitting, that although I procured the Sick newstry Floure, for Halpitals, which were kept as chen and well-hired an possible, and procured slean Bedding, wand elean Linen, for every Man, and had the Sick laid thing yet leveral died, and it was forme Time before we got entirely free of the infection, The first and third Regiments fuffered mon, owing to all the Sick of each Regiment being put into a particular Hospital by themfelves, which kept up the Infection, to that they loft one third of thole left in of this Pe-Very and many of the Nurles, and People Who attended them, were feized with it. But B 2 not

not being able to procure particular Houses for the Sick of the Goldsteam or become Regionant, lends for the Granadiers I distributed them through the Granadiers I distributed them in Town, where the Cobugion had ceased; and by their being thus featured, while they were kept very clean, and at as great a Distance as possible; from the other Patients in the Wards where they were puts they lost few in Proportion to the first and third Regionants, and the Disorder did not spread.

About the End of May, the Weather was very warm at Ofnabruck; when this Fever began to make its Appearance in the Corner of a large Ward, which was next to one kept for falivating veneral Patients; and only divided from it by means of a few thin Deals. Perceiving a strong Smell in this Place, I suspected that the Fever arose from the foul Steams coming from the next Ward, and therefore ordered the salivating Ward to be thinned, and removed all the Sick from the Places near that Ward, and ordered those that had catched the Fever to be put into large airy Places; by which means the Insection spread no surther, and

and only one; out of fix of leven who had got the Pever, when a mile of the period of

very hot at Bilifield, and the Fever Began to thew itself by the Hospital being over-drowded, by a greater Number of Sick being feat from the Army than we had proper Places to put them in; but it was put a Stop to in a few Days, by the Removal of the Hospital. Seventy Sick were left behind to the Care of a Mate, most of them ill of the Fever, of whome twelve died.

In the Beginning of Mague, a few Men were taken ill of the fame Fever at Munfee, in one of the Profphals which was too much crowded; but its further Progress was stopped by fending a Number of recovered Men to Billet.

In November and December 1761, and January, February, and March 1762, we had feveral Men fent from Quarters in the Town of Bremen to the Hospital, fick of the Petechial Fever: they were quartered on the Ground-floors of low damp Houses, and fielh Meat and Vegetables so dear that they could

B 3

The Summer 1762 we had only ten or eleven ill of this Fever in the Hospital at Mar-"wanger, and only one diedoteman flyngeton

Wo When the Troops marched from their Cancomments, im December 1760; towards the Burders of Holland the twentieth and twentyfifth Regiments of Poot left behind them, at Ofnabruck, thirty lick, five of whom had Symp soms of the Hospital Fever, though no Petechiæ appeared; three recovered, and two died fuddenly being lodged in large open Wards (the only Places we had to put them in) with the Windows all broke, in very cold frofty Westwards, from the fame Perlone, hard, bernetres Wood distribution of the water And in the Eylay of In Inc. Company of the Contract of the Co

THE ST

In January 2763, we had only three Patients in this Fever, with the Peterbia upon them, who all recovered. After this we had none taken illiof to at Ofsabruck, while I remained there, which was till the facency fills of March.

different delignant Fever begun variously in different delignas; for the most part with Cold and Shivering. Pain in the Head, and other Symptoms, commonly described as peculiar to this Pever. In some, de begun with a sharp Pain of the Side, or other Parts, attended with scute inflammatory Symptoms in others, it put on the Appearance of the common, slow, or nervous Fever, for a Day or two. Blood drawn in the Beginning from some Patients did not seem much altered, from others it threw up a strong inflammatory Buff (x), but where

n

⁽a) Dr. Barban, in his Tradition the street feet Threat, p. 36. flys, "I have very often met with this buffy or fizy Appearance of the Blood in the Beginning of Ma lignant Fevers, and yet, Blood drawn the dr more Days afterwards, from the fame Persons, hath been quite loofe, "diffolved, and fanious as it were." And in his Effey or Finites, chap, viii. p. 108. fays, "The first Blood frequently appears

The Reason of this Difference of Symptoms in the Regioning and of the forlifferent App of the Blood, feemed to be the fuch Perions as laboured under Physician low as other Pevarus bring brought that Habitals where the Mallgnant Fever was frequent, had their original Difetders, changed into this Fever by breathing a full infected Air and by their Communication with thole ill of the Fover and of Flaxes; at other Times, a mere Actimony of the Blood, let in Motion by a supervening Rever determined the Diforder to be of this kind: and I always observed, that those Men were most apt to catch this Fever, whose Con-

the feet on which Edition app of the field Eleuch Inequently properties of the second **Aitutions**

appears florid; what is drawn twenty four House after, is commonly livid, black, and too thin; a third quantity, livid, diffulved, and fanious. I have hometimes observed the Crasic of the Blood so broke as so deposite a black Powder, like Soot, at the Bottom, the superior Part being either a livid.

[&]quot;Gare, or a dark green, and exceedingly foir Jelly "

Bintions had been breke down by previous Dilater to man Tale for the 19 7 195mm 3 195mm

The Fever appeared in different Former Some had only a Quickness of the Pulse attended with a flight Head ach and Sickness Whiteness of the Toppue and Third, and a Lowners and Languers which continued for Week or more; and then went off, either inferio fibly, or with a profule Sweat, succeeded by plentiful Sediment in the Utine Man of those who fell iste profule kindly warm Swear recovered, the Sweet certains off the Povers These profuse Sweam continued for twelve of twenty-four Hours, and sometimes for two, three or four Days. In those who had the Fever in this flight Degree, the Petechia feldem appeared; and it was only known to be this fort of Fever by the other Symptoms, and the Malignant Fever being frequent at that time in the Holpitals. Dr. Pringle (b) very justly objectes." "That there low Degrees of this " Feyer are hardly to be characterifed, and are World to be discovered, in full Hospitale, by

⁽b) Ofference on the Difference of the Army, part III. chap.
vii. fed. 3. third Edition, 1761.

of the Illness, for which they come in thousand the feet to admit of a speedier Oute.

For the most Part the Fever appeared with more violent Symptoms, the Tongue became more parched and dry, more or less at a Delivium cause on, attended with the other Symptoms commonly described as peculiar to this Fever.

When the Petechia appeared, they came out on the fourth, fifth, finth, or feventh Day; feldom after the eleventh or twelfth (c). They appeared mostly on the Breast, Back,

(c) Ramezini, in his Treatife De Confitutionibus emeruta, 1692, 3, 4, in Multimensi civitate, Sect. 19. mentions the Perceital Fever which had been frequent the three folegoing Years tim which the Perceite appared; community on the fourth or seventh Days, and almost all those died in whom they appeared on the first Day. These Spots came out first on the Neck, the Back and Breast; and it was observed that none escaped unless these Spots extended themselves as far as the Nails of the Toes, vanishing by Degrees on the upper Parts. He tells us likewise, that this Fever was attended with an Inflammation of the Throat, which, about the fleight of this Disorder, terminated in a white alterious Crust. This sore Throat should seem to be the same which we now call the malignam alterous fore Throat, which I never once saw while I was with the Troops in Germany.

Arms, and hegal and fometimes, the rarely on the Face of They had exactly the Appearance described by Do, Pringle, oither like for all diffind Spots of a reddiff Colours or the Skin looked formstimes as if it had been marbled, or vallegand in the Mealles, but of a Colour more dull and lured As they began toudifappear, they inclined to a dum or brown Colour, and looked like fo many dirty Spotswill never faw them rife above the Skin mor did I pace fee any miliary Eruptions in this Fever which agreed exactly with what Dr. Pringle had observed in the former War, and in the Beginning of this; however, we ought not to conclude from thence that miliary Eruptions are never observed in Fevers of this kind; for Dr. Humbum (d), Dr. Hafenohr ! (t) and Dr. Lind (f);

(d) Dr. Huzkam, in his Effay on Fevers, ch. viii. p. 97, tells us, that fometimes, about the eleventh or twelfth Day, on the coming on of profuse Sweats, the Perschie disappear, and val Quantities of small white miliary pushules break out.

(r) Dr. Hofenobel, in his Treatife De Febre Petechiali, cap. 1. p. 12. relates a very particular Cafe, where the Petechia appeared on the fourth, and the white miliary Eruptions on the feventeenth Day of the Peuer.

(f) Dr. Lind, in his fecand Paper on Fevers, p. 105. mentions

belides many other good Prachioness, intention their having deen them thog nitrill and 199 Many had to Percolliss through the whole Course of the Diforder; but in all who were very bail, the Countenance looked bloated and the Eges reddiff and fomewhaviinflamed plant though the Skin was commonly dry, you the Perspiracion from the Language Was Arongs By these Circumstances one mighe frequently dist cover that the Patient laboured under the mad lignant Fever, without afleing any Quellions of

Stickle angrente dutilly vicingabate Dry Comple When Men were taken ill of a Fourte which we suspected to be of the malignant kinds nor first Care was to lay them in airy Places, Separate as much as possible from the other Men, and to keep them extremely clean and they were put on low Diet, and allowed as much Barley or Rice-water as they choic to drink, which was commonly ordered to be sein dulated with the Spiritus Vitriolis and and and " the field work which is fritted a intelligible with high on the

Spots which rife above the Surface of the Skin, and are of the miliary kind, as common in contagious Fevers, as he observed among the French Priloners in Winchester Castle, in the Beginning of the Year 1761.

A Par the differ wo or three Days we could feldom diffinguish, with Centainty that the Feder missof the malignant kind; othought we had often Residento to to bedi in The Paintof the Heady alte Fulhers and Quickness of the Pulle, hand lother Symptoms, dedons com monly to take a way more or lefs Blood, which the Patient hore easily, and for the most part it gave Relief (g) we feldom repeated this Evacuation where we suspected the Fever to be of the balignant kind, whiles a pleutette Stitch, an acute Pain of the Bowels, or fome other accidental Symptom, required to ; or the Patient was flrong, and there were evident Symptoms of Fullress immediately before we ate as the as pairied with the other

(g) De Hisshan, the he fays "yet Bleeding to some Degree "it most commonly require, may nearffully, in the thoog will "plethorie;" yet he afterwards makes the following Perseth: Besides, the Pulle in these Cases sinks oftentimes surprisingly after a second Bleeding, may sometimes after the first, and "that even where I shought I had sufficient Indications from the Pulse to draw Blood a second time." See his Essay on Feores, chap, viii. And Dr. Pringle observes, that in the second Stage of the Disorder large Bleedings have generally proved fattel, by sinking the Pulse, and bringing on a Delirium. Observation on the Disorder of the Army, part III, chap, viii.

and the se

intended

other good Practitioners, have remarked.

After Bleeding, if the Patient was cofficie, or complained of Cripes, he had a Dofe of Rhubarb, or Salts, or a lazative Clyfter, but where there was much Sickness of the Stomach, we gave a gentle Emetic (b) in the Evening, and the Purge next Morning.

⁽b) Dr. Pringle advices giving a Vomit, by way of Prevention, on the first Appearance of the Symptoms, and at Night to force a Sweat, by giving a Drachm of Theriae with ten Grains Sal volat. Corn. cervi, and some Draughts of Vinegar-whey, and to repeat the same the following Night; and says, he has often seen those Symptoms removed which he apprehended to be Forerunners of this Fever received by Contagion; but previous to Vomits, or Sweats, if the Person be plethoric, it will be necessary to take away some Blood. Observ. part III. ch. vii. sea. 5. Dr. Lind; in his seems Paper on Fevers, p. 66. says, To all who are supposed to be insected by Fevers, during this Stage of Rigours, a genue Vomit is immediately to be exhibited before the Fever be formed, and before the Fulness or Hardness of the Public renders its Operation dangerous:

And off in the Course of the Diforder the Siekasten and Maules returned, attended with Griping and Collivencie, or very fetid look Stools, these Medicines were repeated, and a gentle Opine given in the Evening after their Operation.

After Evacuations, if the Pulse kept up, we commonly gave nothing but the saline Draughts, with the Pulvis contraverva, or some temperate Medicine, for the first Day or two. As soon as we could distinguish the Fever to be of the malignant kind, and that the Pulse rather sunk, we joined some of the Cordials to the saline Medicines, and allowed the Patient

I have never had full-tient Opportunities of trying this Method of Prevention, to determine any thing certain about it a but it may be worth while to practife it.

SE POPPE

more

[&]quot;gerous. If the Vomit be delayed too long, and especially if "Bleeding must precede it, the most certain and favoure"ble Opportunity of procuring Safety for the Patient is past. — That he has found it equally serviceable in preventing Relapses, when it is given at the Return of the "Shiverings." A loose Stool, or two, should be procured by the Emetic or Clysters, and he advises Sweating immediately after, in the manner recommended by Dr Pringle. At other times "he gave sive Grains of Camphire every four "Hours, with large Draughts of Vinegar-whey. Eight "Persons in ten, he says, got quite well by this Treatment."

(A Petrus a Caffre, in his Account of a Petechial Pever, which was frequent at Verena, tells us, that the Sick had a Thirft, and an Aversion to Meat, but all of them had the strongest Defire for Wine, and were perpetually asking for it, even those who at other Times used to be very temperate; and that this proceeded from an Inflinet of Nature, which wanted something to support the Strength, De Feb Malig. fett. iii, chap. 26. Dr. Huxbam, in his Effay on Fevers, has the following very judicious Remark on the Uje of Wine: "In this View, and in " (hole above-mentioned, I cannot but recommend a generous red Wine as a most noble, natural sub-astringent Cordial, and per-" haps Art can scarce supply a better. Of this I am confident, " that fometimes at the State, and more frequently in the Deeline of patrid Malignant Fevers, it is of the highest Service, especially when acidulated with Juice of Seville Orange of " Lemon. It may be also impregnated with some Aromatics, as Cinamon, Seville Orange Rhind, red Roles, or the like, as

a cincy sammer analog good.

Cordials and Billion (2), in order to Report the Patiches Strengthessis of all and about I add the common of a side of the contraction of the cont

may be indicated, and a few Drops of Riv. Vitrieli may be added. Rhenish and French White Wines, diluted, make a most falutary Drink in several Kinds of Fevers, and generous "Cyder is little instriot to disher. The Aparies, and other "Nations, where pestilential Distribute are much most rife than with us, lay more Stress on the Juice of Lemons in these Fevers than on the most celebrated Alexipharmac." Chap.

Acid and accelerat Liquors have very justly been recommended and nied by most late Practitioners. In this as well as in other malignant Diseases. Vinegar-whey, Barley-water acidulated with Lemon-juice, and such other Liquors, make good Drinks for the Sick, but we were obliged, for the most part, to use the vitriolic Acid for acidulating the Patient's Drinks, as it was the easiest procured and carried about with the Flying.

(b) If the preventive Method does not succeed, Dr. List advises to have recourse to Blisters; and says, that sixteen out of twenty will next Morning be free of the Pever. But adds, this is said, provided the Source of their Insection be not so highly positionous as it was in the Garland Ship, or in other such violent Contagions. Dr. Pringle mentions his having applied Blisters early, but without relieving the Head, or preventing any of the usual Symptoms, I have often ordered Blisters pretty early in the Diforder; and though I have the quently found them of use in keeping up the Polse, and relieving the Head, and other Symptoms, yet I never saw them have such an immediate Essent as Dr. Lind mentions.

area the de sed Moles, or the tik

After reading the Treatifes of Dr. De Haen and Dr. Hasenobrl, on this Fever, I resolved on giving the Bark (1) in large Quantities, and found it to answer the Recommendations given by these Gentlemen; and shall relate here two or three Cases, out of above a hundred and fifty, in which I gave it.

I. Robert Wilson, of the Second Regiment of Foot Guards, on the 19th of February 1761, was seized with a Shivering and Coldness, suc-

(1) It is long fince the Peruvian Bark has been used by Practitioners in Malignant Diforders, though I do not know that any body gave it in this Fever to the Amount of an Ounce per Day, before Dr. Haen and Dr. Hafenobrl. Dr. Ramaxini mentions its having been tried in the Petechial Pever, in the Years 1692, 3, 4. And in a Treatife on the Plague in the Ucrane, published at Petersburgh, in the Year 1750; we are told; that in the French Translation of the Philosophical Transactions for the Year 1732, there is a Note to p. 264. telling, that Mr. Anyand informed the Acadamy of Surgery at Paris, that Mr. Rufbworth, Surgeon, had wrote to Sir Ham Sloane, on the 23d of May 1723, that when he was Surgeon to a Ship, in the Year 1694, he had cured fome Men ill of the Malignant Pever, attended with pestilential Buboes, by means of the Paruvian Bark. Dr. Huxbam has recommended a Tinture of the Bark ; and Dr. Pringle, a ftrong Decoction of it, with fome of the Tincture, in thefe Malignant Fevers.

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ceeded with Heat, Thirst, a short dry Cough, Difficulty of Breathing, Head-ach, and flight Stitches in his Breast fome Blood was taken away, which was fizy, and he was ordered two Ounces of the Sperma Ceti Mixture, with the spiritus mindereri, every two on three Hours. He continued without any manifest Alteration in the Symptoms, till the 21st. when a Number of dun Petechiæ appeared all over his Body, particularly on his Breaft. The Stitches and Cough were then much eafier. and he had his Medicines as before. On the 22d, he was feized with a Delirium. and was fomewhat comatofe; when he was ordered a Drachm of the Bark every fix Hours. The 23d, the comatofe Symptoms had increase ed, and he had flight Twitchings of the Tendons, a dry brown-coloured Tongue, and a Faultering in his Speech. The Bark was continued, with the Addition of two Spoonfuls of Mountain Wine every two Hours. On the 21th he had feveral loofe Stools. The 25th, he was still loose, and went on as before, with the Addition of fix Grains of the Pilula fapona-

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cee in the Evening. The 26th, the Petechia were not to apparent as before, but he had fill the nervous Symptoms, and his Breathing grew more difficult; and therefore a Bliffer was applied between his Shoulders, and his Medicines continued, as they were likewife on the 27th, without any Alteration in the Symptoms. On the 28th, his Tongue became moifter, and the Pulse, which had been low and quick the four preceding Days, became fuller and flower. On the 29th, he was much more fenfible, his Tongue more moift, and the Twitchings of the Tendons much lefs and in the Evening he fell into a profuse Sweat. which lafted all the 30th. On the 18 of March, his feverifh Symptoms were much abated, his Pulle was calmer, his Skin moilt, his Drought less, and his Unine dropt a plentiful Sediment. On the 2d, his Pever was almost entirely gone, but he had still a Cough, and spit up a viscid Matter. He was ordered to go on as before, with the Addition of two Spoonfuls of the Sperme Ceri Mixture, and the Spiritus Mindereriji when eids Alteration in the Course of that D. de la

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en his his Gough, was troubleforms. He followed this Course will the 7th, when, his Cough and Fever being gone, he was ordered a Dose of Tinaue of Rhuberb; after which he recruited his Strongth daily, without the Affirtance of lany more Medicines:

Hiromathe gal of March 1760, Thomas Stage, of the Second Regiment of Foot Guards, was feized with the fame Symptoms as Robers Wilfin had been in the Beginning of his Fever, butin a more violent Degree. He was blooded to about twelve Ounces, and was ordered a faline Draughtrevery fire Hours: On the 6th, the Blood, which had been drawn the Day before. had thrown up a flight Buff; it appeared to contain but a final! Proportion of Serum, and the Oraffamentum was of a loofe Texture. The feverith Symptoms had increased, with the Addition of a Delirium : pergat. On the 7th, the Delirium was grown more violent, fo that he could scarce be kept in Bed; his Breathing was difficult, his Eyes red and florid : A Blifter was applied to his Back, and the faline Mixture continued. On the 8th, there was no Alteration in the Course of that Day; but being Cz

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being lower towards Night, Blifters were applied to his Legs, and he was ordered to have a Pint of Wine allowed him in twenty-four Hours. On the oth, the Petechiz appeared over his whole Body, of a broad donnish kind: his Breathing became calier, and his Pulse fronger, though the Delirium was fill as bad as before : He was ordered a Drachm of the Bark every fourth Hour in a faline Draught. On the roth, the Bark gave him feveral loofe Stools, but the Petechiz were of a more florid Colour: the Delirium was less, and his Tongue moift, and therefore he was ordered to continue the fame Medicines as the Day before, with the Addition of ten Grains of the Pilule faponacea in the Evening. The 11th Day. he fell into a fine breathing Sweat, his Pulse became fuller and flower, and the Delirium abated : p. The 12th, his Pulse was regular, and the Delirium gone, and he was much inclined to fleep. The 13th, after a calm Sleep, which had lasted twelve or fourteen Hours, he became quite free of Fever. After this he continued the Use of his Medicines iteration in the Courte of Ishar Touch tour cines for fome Days, and recovered his Health

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III On the 22d of May 1761. Lionel Thomasfor, of the First Regiment of Foot Guards, was feized with all the Symptoms of a Perinneumony, attended with a high Fevers for which he was ordered to be blooded. After losing eight Ounces of Blood, he fell into a fainting Fit s on recovering out of which his Breathing being still much affected, he had a Mixture made of four Ounces of the Lac Ammoniacum, and one of the spiritus mindereri. of which he was defired to take two Spoonfuls every four Hours. The 24th, the Symptoms the fame: He complained of having had no Stool for fome Days, and took half an Ounce of the fal catharticum amarum, which gave him two loofe Stools. On the 25th, his Pulfe was small and quick, his Breathing difficult; he was low, and had a flight Delirium : A large Blifter was applied between his Shoulders, and the Medicines continued. On the 26th, in the Morning, the Petechia appeared, and his Breathing was freer : He was ordered a Drachm of the Bark, in a faline Draught, every

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four Hours, Theapth, the Pulle better on The 28th, was more fenfible, and had a kindly warm Moistore all over the Skin. The agth, the Fever was much abated, and his Tongue, which was before parched and dry, became most and white: He continued the Use of the Contex for three Days more, which removed the Fever and being castive, he took a Dose of the Tinchure of Rhubarb. After this he used the Bark for a few Days longer, and got perfectly well.

Aftergiving the Bark (m) with Success, in the two fielt of the Cales mentioned, and to two was dead office Pederals, whi

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(m) The Periodis Bark has not only been found uleful in this Malignant Fever, but has likewife been recommended in the Plague. See Morion Oper. Append. fecund. Exercital. Hift. Febr. Ann. 1658, ad. an. 1691. complexa. In the Small Pou, fee Midical putrid Diforders of the West Lodier, as taken Notice of by Dr. Hillary; and in the malignant ulcerous fore Throat in this Country, as Dr. Wall and others have observed. And in thirty-five Cases of the malignant olderous fore Threat, in which I gave it, joined with Cordisle, and the Ille of Acids, I did not lose one Patient. Nine of them were firing People, and had plethoric Symptoms, and were blooded in the Beginpipg; and seven of them were conive, and took a Dose of genr.

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young Contlement Mates of the Holpital, who had caught the Fever from their Attendance on the Sick, I gave it to above a hundred and fifty at Party 1979, and elfowhere, during my Attendance in the Military Holpitals in Germany; and although it did not answer in every. Case, yet it was found to have a better Estate than any other Remedy that was used. We joined different Medicines with it, according to the State of the Patient We gave the Cantello cardiace, Rad. Jerpent. Ping. and other cordial Medicines, and Wine, when the Pulse was low; Oxymel scilliticum, and other Pectorals, when

the laxative Physic before taking the Bark. The rest had no Symptome which seemed to require these Evacuations. However, it sught to be observed, that this is a Disorder of the malignant kind; and that although some well-timed gentle Evacuations may be serviceable in the Beginning, before giving the Bark; yet too size, or even gentle Evacuations, insudictions will fink the Patient, and installibly do Mischief.

The free Use of the Bark has long been found serviceable in Mortifications and foul Sores, where the Juicea tend too much to the Purrologis; and has been droughy recommended by Mr. Rocky, Serjanne Sprageon to his Majesty, in the Cure of Gunshot Wounds. See his Treatife on Gunshot Wounds.

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Rationt was inclined to be too loofe; the spiritus mindereri; and other Diaphoratics, when we wanted to promote a free Perspiration; and we applied Blifters as Occasion required.

When the Patient was strong, the Pulse quick and full, the Eyes looked red, and the Breathing was difficult, after the Petechie appeared; I took away more or less Blood before giving the Bark. Most Practitioners of late Years have been against Bleeding in this Stage of the Diforder; but trufting to the Affurances given by Dr. Hafenobrl of its being fafe, nay of Advantage to bleed at this Time, if the Symptoms required it, I ventured upon it, and found it to be of the greatest Service, in many Cases, in the Hospitals at Paderborn and elsewhere; and particularly in two Cases at Bremen, and one at Ofnabruck, where it gave immediate Relief, and feemed to shorten the Difease much. One of the Patients at Bremen, Robert Ellis, belonged to an Independant Company; the other, Francis Hamston, of the 24th Regiment, had formerly had his Skull fractured, and took the Pever, while he was in the Hospital, for violent Headachs.

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achs, which he had been subject to, at times, ever after his Skull had been fractured ... The Cafe at Ofnabruck was a Nurse of the Hospital, whose Name was Andrews, a Woman about twenty-five Years of Age, who after attending a Dragoon in the Small Pox, and fuckling at the same time her own Child, then in the same Disorder, was, on the 18th of January 1763, attacked with a Fever. I law her for the first time on the 20th, and found her Pulse quick, full, and strong. She complained of a violent Head-ach; for which the was blooded, and took the faline Mixture, with Nitre and Contrayerva. Next Day, the 21st, her Blood appeared very fizy, and the complained of having been costive for some Days. We gave her immediately an Ounce of the fal catharticum amarum, which operated well. She continued much in the same Way the 22d, and had some loose Stools that Day. Being still inclined to be loofe the 23d, instead of her former Medicines, the was ordered the spiritus mindereri Mixture, with Mithridate. This checked the Parging, but did not stop it entirely. The Fe-

ver ment on without any remarkable Change. sill the anth, at which sime the Petechia anpeared all over her Body, attended with a Rednefs of the Eyes, and a violent Oppression and Pain of her Head, and a quick Pulis. I ordered the Ounces of Blood to be taken away immediately, and a large Blifter to be applied to her Back, and, at the fame time, ordered her a cordial Mixture, with half an Ounce of the Extract of the Bark in it, to be taken every twenty-four Hourson The 28th, her Pulle was not to hard, her Head was much eafier, the Redness of her Byes was much lefs, and the Petechie; had begun to die away, The Blood which was taken away the Day before, had a thin Boff at the Top, but the Craffamentum underneath was of a dark Colour, and of a loofe Texture po On the 29th, the told me that the had had two or three loofe Stools, and the was lower than the Day before; and therefore a Drachm of Mithridate, and two Drachms of the Tincture of Cinamon, were added to her cordial Mixture; with the Cortex; and the was allowed half a Pint of Red Wine, mulled with Cinamon,

Cinamon, per Day, Joth, Her Tongue rather moister than the Day before; and the net follow, but the was full melined to be loofe; and therefore was ordered the anodyne Draught at Nights, and to continue the other Medicines. 11, the was still inclined to be loofe; but her Pulse kept up, her Tongue was moister, and she foundherself pretty easy : p. Feb. ift, Her Pulle pretty frong, and the found herfelfibrouch cooler, and freer from the Fever, and complain. ed of a Duliness of Hearing. On the ed; in the Morning, the felt a warm Moisture all over her Skin, which, about Noon, broke out into a profuse Sweat, and continued till the ash swhen it went off, and her Urine let fall avecipious whitish Sediment. She had Their little berno Fever. The Dulines of Hearing fill continue ed, though it was much less than before After this the Deafoels went gradually away. She continued the Use of the cordial Mixture, with the Cortex, till the 12th, and recovered Strength daily. After this, the had no other Medicine, except two Dofes of the Tincture of Rhubarb, bus well just of Red Wine, mullist with

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and was foon in good Health, and able to dif-

However, it ought to be observed, that we must not bleed so freely, in this or any other Stage of the Malignant Fever, as in acute inflammatory Disorders, otherwise we shall fink the Patient, and hurry him to his Grave; and that Bleeding can only take place with Sasety and Advantage, under the Circumstances abovementioned, immediately before giving the Bark freely; or where some accidental sharp Pain in the Breast, or Bowels, or some other violent Symptom, may require it. They err equally, who recommend Bleeding freely in this Fever, with those who entirely forbid its Use.

Although we found the Bark to be in general the best Remedy in this malignant Petechial Fever, yet it did not answer in every Case; for in some we found other Remedies had a better Essect: And therefore, when we observed that, notwithstanding the Use of the Bark, the Patient sunk, and the Symptoms grew worse, we did not persist obstinately in its Use, but tried the Essect of other Medicines.

Towards

Towards the End of May 1761, two Soldiers in the Hospital, at Osnabruck, were taken ill of this Fever; who, after using the Bark freely, and being allowed a Pint of Red Wine per Day, for some Days together, began to link, and had a Delirium and other bad Symptoms hastening on : upon which I laid aside the Use of the Bark, and ordered each of them a Blifter to the Back, and to take a cordial Draught, with fifteen Grains of Musk in it, every four Hours: and to have their Wine mulled with Cinamon; and although at that Time they were both fo low that I scarce imagined they would live twenty-four Hours, yet next Day I found them greatly mended; and they had a kindly warm Moisture all over their Skin, and the Pulse had rose considerably in both. By the Continuance of the fame Medicine the feverish Symptoms gradually abated, and they both got well.

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About the same time, having given the Bark freely for some Days, and applied a Blister, to another Patient, after the Petechiæ had appeared, I found him one Morning so low that his Pulse

Pulse could scarce be felt. He could not speak; he had a Delirium, and rather a Tremor than a subsultus tendinum, and he had all the Appearance of a dying Man. However, as he still swallowed whatever was put in his Mouth, I changed the Bark Mixture for Draughts, which contained a Scruple of the confectio cardiaca, and feven Grains of the fal vol. corn. cerv. (n) THE HEAD IN THE BOOK SHOW

HERETHER HE CHIES OF THE STREET, SOUTH WITH DITES

(n) Dr. Hunbam, in his Treatife on the ulcerous fore Threats p. 54, &c. condemns the Use of the volatile alcaline Sales, in Fevers of the putrid, pestilential, or petechial kind, as being apt to heat too much, and to haften the Diffolution and confequent Putrefaction of the Blood. However, I cannot help thinking that they are the best Remedies we can use on fome particular Occasions, even in this Fever; for we have no Remedy which gives such a sudden and brisk Stimulus to the Fibres as they do. And I have known many Cales of Patients who were extremely low, and whose Pulse was scarce to be felt, and others who were apt to fall into fainting Fits, who have been preserved by large and repeated Doses of these Salts, and the free Use of Wine, and acescent Liquors, to correct their alenline Acrimony in the Blood. Though as foon as fuch Patients had recovered from this low State, I laid thefe Medicines afide; because I cannot help agreeing with the Doctor in the Belief, that their continued Use will produce the Effects he mentions, For although it be true, that thefe Salts, when mixed with putrefcent Liquors, or with dead animal Substances, refist Putrefaction,

each, and ordered one to be given immediately, and afterwards to be repeated every four Hours and, in the Intervals, to give him frequently affect cup full of Red Wine, multed with Cinnamon; and to apply two large Blifters to his Legs. Next Day, his Pulle had role; and by the Continuance of the fame Remedies it became gradually fuller and stronger, and the third Day after he recovered his Voice; and a warm kindly Moil-ture which ended in a profuse Sweat coming on, the severish symptoms went off soon after, and he recovered his Health.

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At Bremen there were two Men, one in yas much, and the other in February 1762, on whom the Cortex had but little Effect, who recovered by the free Use of Mixtures, with the confectio cardiaca and rad. ferpentarice, and

tion, and, like ardent Spirits and Vinegar (the other Products of Remembership) check and put a Stop to that very Process which produced them: Yet it is also true, that, when mixed with the Blood of living Animals, they stimulate the Vessels; and increase the Hear and Momentum of the Blood, and dissolve it; and therefore I cannot but disapprove the continuing their Use longer than is immediately necessary.

of Wine, with the Application of large Blifsers. Several Cafes of this kind occurred in the Holpitals, where the Bark did not answer. There is one thing to be observed with refpect to Malignant Fevers, which is, that if ever they appear in large crowded Hospitals; unless we can thin the Wards, and procure a free Circulation of Air, and keep the Hospital and Sick extremely clean, the Fevers will cominue to spread, and great Numbers will die; and even the most efficacious Remedies will have little or no Effect. And that when once the Infection is grown frong, it requires the greatoft Care, and fome Time, before it can be entirely got the better of And that if a great number of Men, ill of this Fever, be kept in the fame Ward, they will help to keep up the Infection; and therefore it is siways proper, when it can possibly be done, to lay but a few of them in one Ward; not above one-third of the Number generally admitted.

Many of the Patients, towards the Height of this Fever, fooner or later, had a Purging, which feldom proved critical; and fome were feized

feized with the Plux. A gentle diarrhau, fuch as did not fink the Patient, was commonly of Service ; but when violent, or a Dyfentery came on, the Cafe was always dangerous; for whatever flopped the Flux increased the Fever; and, if the Purging or Flux continued, it funk the Patient. Such Fluxes we treated in the Manner to be mentioned afterwards, when we come to the Hillory of the Dylentery.

o In this Fever, it was common for Patients to vomit Worms (n), or to pais them by Stool, or, what was more frequent; to have them come no into their Throat and Mouth, or fometimes into their Noftrils, while they were affect in Bed, and to pull them out with their Fingers. The fame Thing happened to most of the Britilb Soldiers, brought to the Flospitals for other feveriff Diforders as well as this. Dr. Pringle (o)

⁽a) Some Men paffed only one Worm; others, two or three; fome, fix or feven; and one Man, of the Guards, in Jan 1763, after passing three by Stools in the Course of a Fever of this Kind, discharged fourteen more opon taking a Dose of Rhubarb and Calomile after the Fever was over,

⁽⁶⁾ Obfervations en the Difenfes of the Army, part iii. chap, W. Note to p. 213; third Edition.

when he mentions Worms being observed in this Fever, feems to embrace Lancifus's Opinion 3 and believes that their Worms are not the Cause of the Fever | but being lodged in the Intestines; before the Fever comes on, they are anhaged by the Increase of the Heat, and the Correspond of the Humours, in the Cavity of the Intellines of Perfors labouring under Fevers, especially of the putrid kind pand to they begin to move and Acuggle to get out. This feeried Evidently to be the Cafe with many of the Patients we had, though in forme the Worms Remeditutive given Rife to the Fever, which the bad State of the Patient's Homours, or the infected Air of Helpitals, determined to be of this Kind. In many, the Fever teffened, or went off entirely, food after and they were no more affected with Symptoms of Worms. But forme notwithstanding were subject to frequent Sickness, Pain of the Stomach, and Unealiness in the Bowels, and discharged some Worms from Time to Time. Others had frequent Relapfes into Pevers, which feemed to be owing to the Irritation of thefe Infects.

It is no Wonder that Worms of the round Kind thould be productive of troublefome Symproms, and occasion these Relapses; fince we know that they have formetimes perforated the Intestines, and been found in the Cavity of the Abdomen (p), be brosen fine flow to state

As foon as we observed a Patient to be troubled with Worms, it his prefent Situation did not prevent it, we gave twenty-five or thirty Grains of Rhubarb, with five or fix Grains of Calomet; and if there was much Sickness, we likewife gave an Emetic; which, in more than one Cafe, brought up two or three Worms of the round Kind, and gave great Relief. But where the Fever was violent, we were obliged to neglect this Symptom of Worms for the prefent; and when the Fever was over, if there ftill

remained

⁽⁾ See Hoffman's Works, vol. IH. chap. x. River. Oblive. commun. Del 19 . of Obfervations found in a Libeary. Bone. tui's Sepulchret, anatem. tom. II. G. afeber van Dorveren's Inangural Differiation de Vermibus intestinalibus, published at Leyden, 1753 ; and Laneift's Works ; for Cafes where the Internal Coats of the Stomach, and Intellines, have been conded, and all the Coats perforated by Worms of the round Kind.

remained any Symptoms of Worms, we gave the purgetive Medicine once or oftener, and in the Intervals gave the pulvis stanni, or an Infusion of Camomile Flowers; and in fome Cafes, oily Medicines. By these Means most of the Patitients got well and recovered their Health, and feemed to he freed, at least for the present, from thele troublefome Infects; though a few connued to complain of Sickness, and other Symptoms of Worms, for fome Time afterwards.

What was the Caule of the Army's being fo much troubled with Worms of the round Kind, is not easy to ascertain; unless it was owing to the great Quantity of crude Vegetables, and Fruits, which the Soldiers eat in the Course of the Summer and Autumn, and to the bad Water

they were often obliged to drink.

In the Malignant Fever at Paderborn, many complained of a Dyfuria, and fome of a Suppresfion of Urine, especially towards the Decline of the Pever; and others, of a Scalding and Pain in making Water, though they had no venereal Complaint. Their Symptoms appeared in other Places, but not near fo frequently as at Land the just and but in the raw on a lo Paderborn.

Paderborn Decocions of Gunt Arable, With Tome of the Spiritus wires dutels, and bily Maxcures, and Opiatos, commonly gave immediate Relief, and foon removed this Complaint

One of the first falutary Symptoms which most generally appeared in those who recovers ed, was a Duline's of Hearing, or Deafne's (q)) which came on about the Height of the Fever, and cobtinued a longer or flioner Time, generally till the Fever was entirely gone ; and fometimes for a confiderable Time afterwards VFor stinile in Gerenausthen censes on her yill her he

(4) Riverius tells us, that, according to Hipperates a Doctrine, Deafnels is a very dangerous Symptom in the Beginning of acute Diforders, though it be a good Omen, and portends Health, when it does not appear all the Height of Feverie especially those of a malignant Kind; and adds, that he himfelf has a thousand Times observed, that those labouring under this Pever have recovered, when this Symptom of Deafnels came on at the Height (in flatu) though the other Symptoms threatened much Danger, Pras. Medic. lib. XVH. ded. iii. cap. i. p. 451.

This Symptom of Deafners ocears in other Pevers as well as in this, and often proves a good Symptom in them likewife, as I have frequently observed. Two remarkable Examples of which I had under my Care in St. George's Hospital, in the Year 1759. On the 17th of January 1759, James Donaldfon, a young Mon of nineteen Years of Age, was admitted into the Hospital for a Fethe most Part we did nothing for this Complaint, and it went off as the Patient recovesed his Strength. When it continued long, Blisters applied behind the Ears, or on the Neck, and washing the measur auditorius with the emollient Decostion, in which a small Quantity of Soap was diffolyed, proved of Services,

Swellings of the parotid Glands appeared in many Subjects, towards the Decline of the Fever, which came to Suppuration, and proved critical. In two only, out of those I attended while in Germany, they came on early in the Fe-

ver, attended with a Stupor and a Delirium, a parehed dry proms of a Fever of the inflammatory Kind for which he had been blooded, and used other Evacuations. On the 19th, after the Application of a Bliffer, he was feized with almost an entire Deafnels ; after which, all his other Symptoms became milder, and he mended daily, and was entirely free from the Fever by the 30th. On the 10th of April 1759, a Youth, John Young, fifteen Years of Age, was admitted into the fame Hospital for a Fever, which had already continued fourteen Days. His Speech was affected, and he had entirely loft the Use of his Lambs, was delirious, and had other had Symptoms. On the 12th, his Hearing became exceedingly dull, and he recovered daily afterwards, and was discharged, cured, the 2d of Mer, having recovered the Use of his Legs as well as got free of the Pever, There's the war to dive secu-Marriof Age, was admissed into the Horbital for a voger, but did not suppurate. Both Patients died; all the self recovered, except one old Man, an Invalidat Bremen; who, after having one Swelling appear on the right Side, which came to Suppuration, and seemed critical, relapsed into the Fever; and another formed on the other Side, which came likewise to Suppuration, and the Fever reased, after having raduced him very low; but the great Discharge from the Sores wasted him gradually, and he died hectic in about a Month after the Fever had less him (r).

(r) But although these parotid Swellings were in general fo favourable with us, we are not to imagine that this will always be the Cafe ; for Riverius, though he speaks of these Swellings proving for the most part critical; yet he tells us, that, in the Year 1621, this Fever was epidemic at Mostpelier, and that almost one half of the Sick died; and particularly, that most of those who had Swellings of the parotid Glands appearing about the oth or 11th Day, were carried off within two Days of their Appearance: Having attended feveral who died from the Swellings not coming to Suppuration, he began to confider in his own Mind, what might be the Caufe of their Death, and concluded. that it was owing to there being a greater Quantity of morbid Matter in the Blood than the Part was able to contain and that Evacuations by blooding and purging were the only Remedies which were likely to give Relief; and therefore, in the first Cafe of this Kind, in which he was afterwards confulted, he or-

of the Martinant Pever.

As foon as these Swellings of the parotid Glands appeared, we endeavoured to bring them forward to Suppuration, by the Application of emollient Cataplainis, or of gummous Plaisters; and had them opened as foon asa Fluctuation of Matter was to be felt, and afterwards treated them as common Abicefies. Rivevius ('r') very justly observes, that when such Tumours encrease in such a Manner as to endanger Suffication, they ought to be opened before they come to Maturation; and Dr. Pringle (r) defires us not to wait for a Fluctuation of Matter, but to open the Abiceis as foon as it can be supposed to have formed. the thirty leventh we more or boom freshed

dered three Chunces of Blood to be taken away, notwithflanding the Patient was fo low that the Surgeon was afraid he would have died in the Operation : The Rule role on bleeding, and he ordered four Ounces more to be taken in three or four Hours afterwards; The Pulse rose still more, and he ordered a Dofe of Sena and Rhubarb to be taken next Day, and the Patient recovered. And he adds, that all those who were treated in this manner got well. Prax. Med. Lib. XVII. 68. iii. cap. 1. Sufficient of a veneral P

(u) Ibid.

(1) Pringle's Observations on the Difeosos of the Army, Taxt III. chap, vii sich editeration d abiden anvollende se

In February 1761, three Patients in the Decline of this Fever had Buboes formed in the Grain, which proved critical. As first, on obferving them, I fulpected them to be venereal; but on examining the Patients, they obstinately denied their baying any Reason to suspect any such Cause and the favourable Manner is which they healed without the Appearance of any other venereal Symptom, made me believe what they affected to be true; especially as such People are not fly in owning Complaints of that Kind. The first Patient I faw who had a Bubo in the Decline of one of these Malignant Fevers, was a Woman, Wife to a Soldier of the thirty-seventh Regiment of Foot; she had a Child at her Breaft, and her Husband was living with her at the Time the was taken ill of the Fever, and neither of them had the least venereal Complaint. In a few Days afterwards, two Soldiers in other Hospitals, towards the Decline of very bad Petechial Fevers, had likewife Buboes formed in the Groin, without any Suspicion of a venereal Taint. Except in these three, I did not fee any critical Buboes appear in this Fever while I was with the Troops in

Peret:

Germany, the Mr. Louis, who served as a Mate to the Hospitale, end who was at Hoster, where we had another Hospital established, while I was at Paderborn, told me, that, in the Beginning of the Year 1761, they had several Men in the Hospital ill of this Fever, who had critical Rubbess formed in the Groins and Atmpita (4).

About the same Time that these Bubbes appeared, severals towards the Decline of this Fever complained of a Pain all along the Spermatic Chord; and soon after a Swelling of the Tosticle appeared (a). However, this Complaint was not peculiar to those who had the

(a) This Symptom of Buboes is taken Notice of by Authors, but does not feem to be so frequent as many of them would make as believe. Neither Dr. Hurban nor Dr. Fringle mention their having seen such Buboes; and Dr. Line says, that he never saw them till the Beginning of the Year 1763.

(2) Hippocraies takes Notice of Swellings of the Testicles in Fevers. Me tells as, that a Man from Alcibiader had his less Testicle swell before the Crisis of a Bever. See his Lound Book on Epidemics, sect. ii. And he mentions this Symptom as a Crisis in the ardent Fever. See his Book on Grifer, sect. xi.—And Dr. Antonio Lizzari, in a Treatise which he published on the Acuts Districts which were frequent at Vanice, and all coins Italy, in the Years 1761, 62, tells us, that Abscelles of the Scrotum and Testicles frequently followed the Measses.

Fever;

Never, for others redovering from bluxes, and other Diforders, were likewise affected with field Swellings. Indiduce obtome any hympicom of this Kind in Pevets while I was with the Proops in Germany, except im January, Pebrutry, Marchy and April 1760. By Bleeding, and applying emollient Pomentations and Camplains, and bathing the Parts with spring the Swelling of the Testicle was presented; but where no Memon was made of this Paint the Swelling had already begun, it controlled the Swelling had already begun, it controlled to Reason to suspension of the Scrotum of Testicle, which haded very kindly. We had no Reason to suspension of the Scrotum of Testicle, which haded very kindly. We had no Reason to suspension of the Scrotum in any of them, and to suspension of the Scrotum.

mMany, while recovering from this Fever, done to the Bye; for the most part of one Eye only, sometimes of Both a When the Patients where trong, they were blooded, and had Blifters applied behind the Eart, and sometimes, where the Pain was great, had Poulaices of Bread and Milk applied to the inflamed Eyes which, with the Assistance of some cooling Physic.

Fever

fick teom monly removed this Complaint who in brie offinge Cales we were obliged to be pear the Assertions, to apply Leeches to the Temples; and after the acute State of the Difor-der was passed; to order the Eye to be washed stequently with the Collyrium vitriolicum, or Collyrium Saturninum, before we got the better of this Complaint. However, it ought to be observed, that if these altringent Collyria were used too foot) they did hart. When there Ophthalmids were neglected in the Beginding the Inflammation frequently tole to a great Height, and left an Oblebrity or Philip wer the Cornea, which remained in Impediment to the Sight not to be removed.

Towards the Decline of thele Fevers, and very often during the Course of them; many complained of Paigs in their Feet and Toes, which formetimes ended in Mortifications, especially where the Pahents lay in very cold Wards. For the most Part, the Mortification extendes no further than the Ends of the Toes, thousan fome it spread over the Feet, and in two or three advanced up the Leg. Several loft one Phich, with the Affiflacte of the cooling Phy

Fever

Man loft Half of each Foot; another loft both Feet, and Part of each Leg. Both got the hetter of the Fever, the the Man who loft both Feet languished along time afterwards. These Pains of the Feet and Toes, and the Mortifications which followed, were for the most part owing to the Patients being exposed to too much Cold while they were very weak, the Circulation languid, and the Julies viriated by a putrid Distemper; by which means the Vessels were rendered incapable of carrying on the Circulation in their extreme Branches (1).

As foon as the Sick began to complain of these Pains of the Toes and Feet. I found the best Remedy to be, the Bathing of the Feet in

(1) These Pains and Mortifications of the Feet and Toes were not confined to those who were brought low by malignant Revers p for, during the very hard Frost an the Beginning of the Year 1763, many of the Patients who lay is very large open Wards in the Hospital at Ofmorno, were affected in the same Way. One Man had both Feet; and Part of each Leg, completely martified, and died in about nine Days after the first Appearance of the Mortification. One lost half of one Foot, and some Toes of the other; and the third lost the first Joint of some of his Toes, and the Ends of others.

in January 1762, one Patient, ill of the Peterbial Fever at Bremen, had a Lividness and Blackness, threatning a Mortification, which appeared at the End of his Note: I expe fome Days, that If he recovered, he would tole Part of his Note: but, by giving him large and repeated Doles of the cortes and confestin cardiaca, in a Mindereri Mixture, and allowing him the free Use of Wine, its further Progress was prevented; and as the Patient gor clear of the Fever, the Note recovered its natural Coto the wor

lour.

the End of the least Skin pected of Trom the End of it.

ced the Padents low, it was very common for the Back, and Parts on which the Weight of the Body refled, to mortify. As foon as any thing of this Kind was observed, we ordered such l'aves to be covered with proper Drestings, and gave the Bark and Cordials freely; and took care to make the Patient change his Por ture; and by Pillows prevented as much as porfible the Weight of the Body from refting on that Patt. By this Treatment, many recovered, where the Pever was on the Decline, and the Strength not too much exhausted; even the a very large Surface of the Skin had morti-fied; but where the Patients were very low, and the Fever ftill continued, or where it was complicated with a Flux, which kept them perpetually nafty, and exhausted the Strength it generally proved fatal.

Patients, who were reduced very low by this Fever, or by repeated Relapses, were subject to oedematous Swellings; especially of the Feet,

towards

the Evening after fitting up all the Day. These Swallings generally went away so the Sinks recovered their Strengths but in some Cisies they continued obstinate, and afcended to wards the Thighs) and in some spread allower the Body, and terminated in an universal Ameterca. - lo When thefe Swellings were recent, an fixed to the Feet and Legs, redmmonly the Back joined to the lixivial Sales, on the Oxymel of Squills, or other Diurctics, and a Puspative ence our twice a Week removed them. In fome, an Infusion of Horse radish had a good Effect; in others Sweets brought out by piezes of Dever's Powder, or of the gutta onafter a Fever of this dising anyhorn relationship Sometimes theid Swellings were very oblinate, and refined the Force of all internal Remedies. In fuch Cafes, Punctures made in the Feet, or lower Part of the Logs, which furnished a Drain for the Water, had a good Effect, Blifters applied to the Legs were of Service to Tome. When the Punctures were made, or the Blifters applied, before the Patient's Strength was extrausted, provided that he laboured discord!

boured and or the other Dilogdes but the fe order mirrous a Swellings, a which proceeded from Weaknels, I never observed any bad Effects from them, the Lused them both repeatedly in a Variety of Cases. But if the Patient was very week, or had a Hectic Fever or Purging a or other Disorders, and the ordematons Swellings large, then offentimes the great Discharge exhausted him Strength, and a Gangrene and Death were the Consequences to be always to

One of the most remarkable Instances of the 2002 Effects of Blifters used in this Way was in the Galerofa Soldier at Paderborn, Thom Hope, of the Second Regiment of Foot Guards, after a Fever of this Kind, was swelled all over, especially about the Face and Neck, and had a Difficulty of Breathing the after have ing road Variety of Medicines for this Courplaint, without shy Effect, beshed a large Blifter applied to his Back, and took the Cortex in wi Mixture, with the Oxymel of Squills. As from as the Blifter began to discharge, the Swellings decreated, and were afterwards entirely removed by the Help of one or two Doles E 2 boured

vd.

of Phylic, and the continued Use of the Medicines before preferibed. Three other Men in the Hospital at Opinbruck, in May 1761, having ordeniatous Swellings of the Feet and Legs, which yielded to no internal Remedies, had Blifters applied to their Legs, used the Cortex, with the lixivial Salts, two or three Times a Day, and a Purge every fourth Day; which removed the Swellings in a thort Time.

Some of the Soldiers, who had repeated Hospital Pevers, had their Blood so much broke down, as to be subject to profus Hamory rhages from the Nose; and some of them passed Blood likewise by Stool; which reduced them to a very low State, sometimes attended with imminent Danger. In such Cases we found nothing to answer so well as to give freely of the Bark; to acidulate their Drinks with the spiritus virtiss; to allow them as much Red Wine as the Strength and present Circumstances could bear; and at the same Time to support the Patient's Strength by a mild Diet, of light Digostion; as Water or Rice Gruel, Panado, weak Broth, and the

like. When there was a Tendency to a Diarthes, we were obliged to add fome of the electuarium diafeordii to the Cortex, and frequently to give an Opiate in the Evening. One Cafe, where this Method of Cure had a very remarkable good Effect, I had under my Care at Paderborns. A Soldier who lay in one of the lower Wards of the Jesuits Hospital, after a Malignant Bever, attended with a Flux, used to bleed at the Nofe, to feur, five, or fix Ounces at a Time, and once or twice loft near a Pint of Blood, of a dark Colour, very thin and watery, and of so loose a Texture, that the grumous Part scarcely coagulated. This Evacuation brought him fo low, that he could fearce turn himfelf in Bed; and his Pulfe might be faid rather to flutter than beat: By the continued Use of the Bark, and of Cordials, and Drinks acidulated with fpiritus vitrioli, and fome Spoonfulls of mulled Red Wine every two or three Hours, he was restored to Health and Strength. The only Accident which happened during the Cure, was a Threatening of a Loofenels, and the Return of his Flux; which however was flopt E 3 by

by a Dole of the tinctura rhei; by joining forme of the electuarium diascordii with the Bark, and giving an Opiate in the Evening.

Putrid Malignant Pevers, attended with Eruptions, are taken Notice of by Hippocrases (2); and other antient Authors (4); but whether they meant that particular Sort of Braption which we now call Petechne, it uncertain que their Descriptions are not clear enough to diffinguish it from the Millary and other Kinds, But fince the Kear 1900, we have had many accurate Accounts of Fevers of this Kind, which have appeared in different Parts of the World ; from all which it appears Shat Such Fevers generally take their Rife eitherefrom forme antecedent Acrimony of the Blood; or, what is more frequent, from tome Source of Corruption or Contagion; from the Use of putrescent animal Food, and a Want of fresh Vegetables and accident Liquors, from

⁽a) Hipperat. lib. in popule fect this text is will (a)

⁽o) Actius Tetrab. ii. fect. i. cap. 129. Advar. lib. 1. the say reserved delien , zuil sin to matche

the putrid Steams of corrupted animal Sub-frances; from the moift putrid Vapour of low marshy Places in Summer, where there is stag-nating Water, which corrupts by the Heat; from the foul Air of crowded Hospitals, Jails, and Ships; and from such like Causes (b).

When once this Fever begins, it is observed to be of a contagious Nature, and (if proper Care is not taken) to affect those who attend the Sick, or who live in the fame Room, and breathe the Gma Air with them, is or denous

ow Many Authors have reckoned the Malignanty Petechial, and Pettilential, to be diffinet Species of Fevers; and have treated each of shorn under valiparticular Head. But Riverim (2) has very justly observed, that they all belong to the fame pettilential Tribe, and only differ from one another in the Degree of In-

odi mort pointino 10 nonquino 10 opriod (6) Sea thele Caules mentioned by Riverius, and fince more fally explained by Dr. Pringle, Obstructions on the Distance of of fresh Vegetables and the leader littered acerthreum

(c) River. Prop. Mal. lib. xvi. fest. iii. Prefet. (a)

i dil matte i cor que a foi in dener internation,

fection, and the Violence of the Symptoms (d): and that they are to be cured by the fame general Treatment, and the fame Medicines.

(d) The Malignant or Hospital Fever, and Petechial, seemed to me to be entirely the same Disorder, and the Petechial Spots to be only a Symptom which appeared sometimes, but not always. And Riveries says, the Petechia do not always appear; but when they do, it is a most certain Sign of a Pestilential Fever. See his Prax. Med. cap. xvi. sect. iii.

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THE Dysentery generally began to appear foon after the Army took the Field; and became frequent about the End of July, and continued to till the Army went into Winter-Quarters; and through the Winter, many of those, who had this Disorder in Autumn, relapfed, upon returning to their Duty; or by drinking too freely of spirituous Liquors, and being irregular in their Living. the balance val

It is now generally agreed upon, that this Disorder is entirely produced by fuch Causes as make the Juices become too putrescent, and turn the Flow of Humours to the Bowels; and in the Camp it feemed to arife principally from an obstructed Perspiration caused by the Men's lying

lying in the Field, and doing the necessary Military Duties in all Sorts of Weather another fame Time being often exposed to the putrid Steams of dead Horses, of the Privies, and of other corrupted Animal or Vegetable Substances (a), after their Juices had been highly exalted by the Heat of Summer.

(a) The Dysentery has been long alledged to write from a putroleent Cause in Camps, from the Smell of corrupted dead Animals, and of Excrements; during the frest of Samuer. Research, in his Chapter on Camp Disease, information, that Dr. G. Erric Bernforf. Physician to the Duke of Brindwick, who ferred five Campaigns with the Brandwick and Lineaburg Troops in Burgary, told him, that the Camp Difease, particularly the Malignant Fever and Dysentary, took their, Rife from the Troops remaining long cocamped (on the same Ground, and being exposed to the corrupted Steams of the Bodies of dead Men, Horses, and other Animals, which lay unburied; and of Excrements, which were not severed with Earth. And these Causes have since been particularly taken notice of by Dr. Pringle, in his Observations make Disease of the Army, interest as make Disease.

Many have imputed the Caule of this Diforder to the sating of Fruit in excell, because it generally appears about the Middle of Summer, the Time the Fruit begins to be in Soulous, and continues through the Autumn. But from later Observations this should seem to be a vulgar Error. Dr. Pringle (part

quent at Pude born in January, February, and March 1761, the Flux frequently accompanied to bus service one and a service.

(part i, ch. iii. p. 20.) tells us, that, in the Year 1743, this Sickness began and raged before any Fruit was in Season, except Strawberries, (which from their high Price the Mensaffed) and ended about the Time the Grapes were ripe; which growing in open Vineyards were freely eat by every body. And Dr. Tiffer, in a Treatife which he published, called Auts on People for la Sante, in his Chapter on the Dyfatery, § 320, ripe Fruit, especially the Summer Fruits, are to far from being the Caste of the Diforder, that they are the Pears of Fruit is mod plentiful, the Dyfentery is leaft frequent ; and he relates feveral Inflances where the Ufe of ripe Grapes proved a Cure for the Diforder. Eleven People were strucked by the Dylamery, nine est Fruit, and all recovered ; the other two, a Grandmother and Child, from Prejudice, eat none, and both died. A Regiment of Swift Soldiers, in Garrison in the South of France, had the Dysentery very frequent among them. The Captains purchased some Acres of a Vineyard, and carried the fick Soldiers to the Field, and gave them the Grapes to eat; and ordered the Men in Health to five upon them chiefly. After this not one Person died, nor was any hed with the Diffemper, - In an Account of a Trestife on the Dysentery, published at Hambury in 1753, which was epidemical the Year before, in August and September, we are told, that it did not proceed, as is commonly believed, from the eating of Fruit; for it was observed, that those who eat Fruit

Erust

it, and we had in the Hospitals like wife a Numher of old Cafes of this Kind, the Remains of the preceding Campaign about Warbourg; besides fome Men who had relapfed during the Winter and were fent to us when the Troops marched upon the Winter-Expedition, into the Country of Heffe. In May and June, what Fluxes we had at Ofnabruck, were the remaining old Cafes of the Hospitals of Munster, Paderborn, Heater, and Niebms. Some few recent ones were fent to Bilifield about the End of June, and above 300 to Munster, in July and August. Those sent to Bremen, in November and December, had continued for some time before they reached us; but a good many of the Soldiers in the Garrison were taken ill of this Disorder. and fent immediately to the Hospital. In the

Fruit freely escaped better than those who abstained from it altogether. Vide Comment. de Rebus in Hist. Nat. IS Mederin. Gestie, vol. II. par. iv. sech v.

Generally in August and September we have People admitted into St. George's Hospital for the Dysentery; who have certainly not catched the Disorder from eating of Fruit, but from working in the Fields, and being exposed to Caules fimiliar to those which produce the Dysentery in Campa.

Beginning

Beginning of May we had but four ill of this Complaint in the Holpital I attended; and there were not above fix or feven, among the Sick fent down from the Army, in the Middle of this Month. In June there were but two lent to the Hospital at Minden; and not above ten among the Sick fent to Natzungen in the Beginning of July; the' towards the Middle of this Month they began to be more frequent; and continued to be more so in August and September; and in the Hospital at Ofnabruck we had not above five or fix ill of this Diforder, in December 1762, and in January, February and March 1763.

The Dyfentery commonly begun with Sickness and Gripes, succeeded by a Purging, and attended with more or less Fever. Very foon the Gripes became more severe, attended with a Flatulency in the Bowels, and often with a Tenefmus. The Stools were chiefly composed of Mucus, mixed with Bile, and more or less Blood: the fometimes no Blood could be obferwed in them; and then the Soldiers used to fay they had the White Flux Beginning

After

After eight, ten, or twelve, Days, if the Diforder was not complicated with any other, there remained little or no Fever, unless where some Accident supervened; tho in Cases which termis nated fatally, towards the latter End came on a Fever of a low malignant Kind, attended with black fetid Stools, Dientery, Hiccup, Staper, and other bad Symptoms.

had continued for some Time, the Sick complained for a Day or two of severe Gripes; and then discharged along with the Stools state Pieces of hardened Excrements; at other Times, the more rarely, little Pieces of white Stuff slike Tallow or Suet: Frequently small Filaments, and little Pieces of Membranes, were found floating in the Stools; and it was very common for the Sick to vomit up Worms of the round Kind, or discharge them by Stool (1).

In the Course of the Disorder, the Men often complained of a violent Pain of the Rectam,

near

⁽⁴⁾ Most Authors, who treat of the Dysentery, meation this Symptom of Worms; and Dr. Husham tells us, that, in Tome Seasons, he has seen sound Worms in the Stools of most of the Dysenteric Patients. De Acre, vol. II. p. 98.

nest the Fundaments which was molt exertisting when they went to Stool and continued for a Days, fametimes for a Week or more; and then they pulled those of lefe of a Vellow Pus with their Excrements; and the violent Pain chifed Mr. A. Taugh, one of the Apothecaries to the Military Hospital in Germany, was the first who told me that I should find Pus mixed with the Stools: on my mentioning a Cafe of this Kind, which had been relieved by Bleeding and Clyffers often repeated , he told me he had observed it frequently at Gibralian, and was at a Lois to understand the Nature of the Symptom, will he observed the Matter in the Stools which at once the wed him that it had been off ginally an acute Inflammation of the Party and pointed out to him the proper Method of common for the Sick to vomit up Worses

Oftentimes the Bilious and Malignant Fevers terminated in the Dyfentery; or were accompanied with it, when it might be looked upon as a Symptom of these Fevers.

The Appearances we found after Death in the Bodies of fome Patients, who died of old Fluxes

near

inflamed, and partly gangrened, especially the internal Coat. In two the lower Part of the Colon was inflamed, and there were leveral livid Spots on its great Arcade. In one whose Body was much emaciated, and who had been seized with a violent Pain of the Bowels two Days before his Death, all the small Guts were red and inflamed, and in another there were livid gangered spots on the Stomach (c).

There was no Diforder we were more fuecelsful in the Cure of, than recent Fluxes; but after they had continued for Weeks, and were become in a manner chronic, they often foiled all

(c) From the Accounts we have in Authors, of the Differtion of the Bodies of Persons who died of the Dysentery, it would appear; that there is no Part of the alimentary Canal which has not some time or other been found inflamed, or in a flate of Suppuration or Gangrene; and the Liver, Spicer, and other Viscera, have likewise been found diseased, but the Restum and Colon have almost in all been more or less affected. The following Account I had, in the Year 1748, from the late Dr. I. Freser, who afterwards practised in the Island of Maris, two Days after the Patient died. Mary Raid, a Woman thirty Years of Age, was taken ill of a Dysentery, which in Three Weeks.

our Endeavours, and a great Number died (d).

Weeks Time killed her. In her Life-time the complained, more than ordinary, of Gripes in her Belly, especially in her Left Side. Her Body was opened in Presence of Dr. Danies. who had attended her, during her Illness. All the Intestin Melentery were inflamed, especially the Colon and Rectum the internal Side of which was quite in a mortified State, as contained little Vehicles full of a putrid fetid Liquor, Numbera of which the had evacuated by Stool fome Days before her ludgisoars nu ee ogen

While this Sheet was in the Prefs, I received Dr. Pringle's 4th Edition of his Observations on the Distastes of the Army, and Dr. Bater's Treatise on the Dysentery which was epidemic in Lan in the Year 1762. Both these Gentlemen give an Account of the Diffection of the Bodies of fome People who died of the Dyfentery; where, befides the common Appearances of the inner Surface of the Rectum and Colon being covered with a bloody Slime, and their internal Coats being inflamed, gangre ed, or in a putrid State, there were observed on the Inside of the lower Part of the Colon, and upper Part of the Rectum, a Number of little Tubercles, or Excrescences, which resembled the Small Pox, of a flat Sort at the Height of the Diforder; but differed from them in this, that they were of a firm Confidence, without any Cavity: they were believed to take their Rife from the cellular Membrane, which lies immediately above the villous Coat. Perhaps such Tubercles might have been found in the Colon and Rectum of those Bodies we opened; but not looking for them, they may have passed unobserved.

Morgagui, in his Book lately published, de Sede & Caufis Morberus, epift, xxxi. is of Opinion, that the Filaments, and Pieces of Membranes, which are frequently observed in the Stools, are often formed of inspiffated Mucus and Lymph, and other Liquors; and not the Fibres, or Pieces of the villous Coat of the Inteffines, as alledged by many Authors.

Weeks

Upon

Upon my first being employed in the Military Hospitals in Germany, I was surprised to see so many of the old Dysenteric Cases end fatally; and imagined I had not fallen upon the Right Method of treating them; but upon consulting the other Physical People employed in the same Service, I found them as unsuccessful, as myself, after having tried a Variety of Remedies; And at last, I was convinced, that when once the Flux had continued long, and injured the Structure of the Intestines to a certain Length, a Gangrene

⁽²⁾ Mr. Clegborn, in his Account of the Diffester of the Island of Minoria, tays, "That almost all the Dysenteries which fell under my Observation, unless they were speedily cured in the "Beginning, at best proved obstinate, and too frequently fatal, "in spite of the many boasted Specificks for this Distemper." chap. v. p. 228. — The physical Gentlemen employed on the American Service have told me, that the old Flux Cases were as fatal in America, as we found them in Germany. I would not from thence have it believed, that every old Flux was to be spoked on as a lost Case; and for that Reason given up, and no Attempts be made to cure it; for many, by great Care, and Strength of Constitution, have gradually surmounted the Disorder, and recovered their Health; especially when they got over the Winter, and lived till the warm Weather began.

will often form by flow Degrees; and the Diforder end fatally, notwithstanding the Use of what are effected the most efficacious Remedies; and that, when this Diforder is violent, the Cure principally depends upon an early and speedy Application of proper Remedies, before the Swength be exhausted, or the Structure of the Bowels too much hurt. The bad Success we had in treating these old Cases, may perhaps furprise those who have never practised except in healthful Cities, where the Difease is commonly mild, and People apply foon for Advice. But all those Gentlemen who have had the Care of Military Hospitals, where the Dyfentery has been frequent, and where the Sick have been often fent a great Way, before they reached the Hospitals, must be convinced of the Truth of what is here afferted.

In the Treatment of this Diforder, as well as of the Malignant Fever, nothing contributed more to the Cure, than keeping the Sick as clean as possible, and in large airy Wards.

Moft

Hive

Most of the recent Fluxes, which I saw, were at first attended with a good deal of Fever, and Pain in the Bowels, and required more or less Blood to be taken away, according to the Strength of the Patient, and the Violence of the Symptoms.

When the Patients were strong, and complained of sharp Pain of the Bowels, attended with a Fever, we used the Lancet freely; nor were we discouraged from bleeding in the Beginning by the low quick Pulse which often attended the Disorder; and we frequently found the Pulse rise as the Blood slowed from the Vein. But when the Sick were low and weak, without much Pain or Fever, and the Pulse was soft, we were more sparing of the vital Fluid (e).

A rold mt. schot when the Aylentery was epidemical at Gre-

mended by Sydenbam, Husbam, Pringle, and other Practitioners; yet it has been reckened unnecessary in this Disorder by some late Authors. But in most of the recent Cases I saw, it was extremely necessary, and contributed greatly to the Relief as well

As the Dilorder was for the most part attended with Sickness in the Beginning, we gave a Vomit after bleeding; which not only discharged the Contents of the Stomach, and a Quantity of Bile, but relieved the Sickness, and frequently threw the Patient into a breathing Sweat; and made the Purgatives which were given next Day operate more freely, and with more evident good Effects than where no Vomit had been administered.—If in the Course of the Discase the Sickness returned, the Emetic was repeated; and we often observed, when the Flux was obstinate, that well-timed Vomits

well as the Cure of the Patient; indeed where the Diforder hid already continued fome time, and the Fever was gone off before the Patient was fent to us; and the Diforder had become in a manner chronic, and the Patient low, then bleeding was unnecessary, and would have probably done Hurt. Mr. Francis Refer told me, that when the Dysentery was epidemical at Gibraliar, in Summer 1756, he found that by bleeding such Patients as he met with at the first coming on of the Symptoms, and by giving them immediately a Vomit, and afterwards a sudorisic Draught, the Diforder was rendered mild, and sew of those died.

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greatly promoted the Cure.—The Vomit we commonly employed was the Powder of Ipeca-cuana, which we gave from ten to twenty Grains; and where the Patient was strong, and we wanted to make a free Evacuation, we added one, two, or three Grains of the Tartar Emetic; which encreased the Strength of the Vomit, and commonly operated likewise by Stool (f), as Dr. Pringle has observed.

Next Day we ordered a Purge to empty the other Parts of the alimentary Canal. The Purgative, that at first was most employed for this Purpose, was Rhubarb; but upon repeated Trials we did not find, that, in general, it answered so well, in this first Stage of the Disorder, as the fad cather tioum amarum; with Manna and the fad cather tioum amarum; with the fad cather tioum amarum and the fad cat

(f) Mr. W. Raffel, who was with the Holpital at Martinice, told me, that, when he was there he found the Vomit with the Tartar Emetic to be far preferable to any other, in all Cafes where there was much putrid Bile lodged in the alimentary Canal; as it speedily carried off those compatiblemours, which were often productive of the greatest Mischiefer if they remain ed, but for a short Time, pent up within the Bowels.

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and Oil; which operated without griping or disturbing the Patient, procured a freer Evacuation, and gave greater Relief than any other purgative Medicine we tried. Mr. Francis Russel, Surgeon to the British Military Hospital in America, who was formerly Surgeon to the Island of Minorca, was the first Person who informed me (in the Year 1757) of the Use of the saleather-ticum amarum in the Dysentery; he told me, that the Year before (1756) the Dysentery had been very frequent and very satal at Gibraltar; and, after trying Variety of Medicines, he had found nothing give more Relief, or contribute more to the Cure, than repeated Doses of these Salts.

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As a great Part of the Cure depended on the frequent Use of gentle Purges (g) in the Beginning

offer the Assimal Wanter see to seek as thiteless Roses

⁽²⁾ Variety of Medicines have been recommended to answer this Purpole.

The vitrum ceratum antimenti proved often too rough a Medicine, and therefore we laid it almost entirely aside.

Repeated small Doses of the Ipecacuana, from four to fix

ning, to carry off the corrupted Humours, the Purgative was repeated overy feeded, third, or fourth Day, as the Cafe required; the Opera-

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hard sie enicibelle svelon

Grains, operated both as an Emetic, and kept up a Purging; but they made the Men fo fick, that we could not prevail upon them to continue their Ufe: Mr. Prancis Raffel told me, that, in the Vear 1956, he found a few Grains of Rhubarb added to each Dole, made it operate more as a Purgative, and did not make the Men fo fick .- Dr. Akenfide propoles giving the Ipecacuana in fo finall Doles as one or two Grains every fix Hours, in a Draught made of Mint-water, and Half a Drachm of confestio cardiaca; and, after bleeding and vomiting once, feems to depend almost entirely on the Ule of this Medicine for the Cure of the Dyfentery. "See his Commons de Dyfenteria, cap. z.

The watery Tincture of Rhubarb, recommended by Deputrutenwe tried in fome Cafes at Bramen; and found it to be a good mild Purge, but not to answer so well as the Salts and Manna in recent Cafes. Mr. William Raffel cold me that they found this watery Tindure of Rhubarb to answer better in America than any other of the Preparations of Rhubarb.

Caloniel has been recommended by many as a Purge in Dyfenteries; and Dr. Huxbam (de Aere, Vol. II. P. Ton) afflures us, that he has often experienced the good Rifects of it, especially when the Patient at the same time had Worms; in such Cales we joined it to Rhubarb as mentioned in the Text, or gave a Calomel Bolus over Night, and a Purge next Morn-. Te : no Animal Pood, not to much as Chicken-Broth .

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tion of the former Purge, and the Symptoms, determining the Frequency of the Repetition.

Dr. Dawan, Phylician to his Majesty, told me, that he found the following Method of Cure always successful in the Dylentery, which was epidemic in London in the Year 1762.

If the Patient was Plethoric, or had much Fever, he ordered more or left Blood to be taken away; and then gave four Gusces of the following Julep, every Half Hour, till it both vomited and purged. R Ferter, emotic, gr. iii) Manua eleB. Usr. iii felter in Ap. bordeet. Lib. 1.—The next Day, and for five or fix Days more, the Patient took fo much of a Decoction, of Manua. Tamarinds, and foliable Tartar, as kept up a free Difcharge by Stool.—If the Irritation and Griping were fevere, he found that a Solution of Manua, in the common Almost Emultion, was fufficient.

When the Pain, or Tenelmus, was violent, a Clyfler, of Chicken Broth, or of an Infusion of Linford, with an Ounce or two of Oil of fweet Almonds distolved in the Volk of an Egg. injected once or twice a Day, was of great Ula.

Upon the whole, he was always pleased when he faw large excrementations Stools come away; and when that could be procured by a gentle Method, he was the more pleased.

This Diforder was very often cured in a few Days, and in that Cafe he drops the further Use of Medicines; but when it exceeded the Period of fix or seven Days, he then added thirty or forty Drops of the tindura thebaica to the Clyflers; and ordered a Seruple of the Extract of the Logwood to be taken thrice a Day in some proper Vehicle.

The Patient's Diet was Rice-Gruel, Sago, Panado, and such

The Patient's Diet was Rice-Gruel, Sago, Panado, and fuch like; no Animal Food, not fo much as Chicken-Broth, was allowed

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It was furprising with how little Loss of Strength the Sick bore the Operation of these Purges; I have sometimes given them to strong People

allowed in the Beginning of the Diffemper, nor even Oil, Butter, or Fat of any Kind. The common Drink, was Almond Emulsion, Rice Water, or Barley Water with Gum Arabic.

Dr. Duncan loft but one Patient out of Eighty, whom he had under his Care that Season; and he was delirious, had a high Fever, and a fulfilles tendinum before the Doctor was called to him, and he died the next Day.

The late Dr. Tong, of Raisburgh, forms to have had a very just Notion of this Different, and of the proper Method of treating it; for, in his Treatise on Opinso, feel, via he fays, I am convinced from Experience, that most of the Dyfente-Strick I have hitherto met with, unight have been cared by purging mildly, but constantly; and at the fame time abasing it the Atrimony in the great Gluts by smollient Clysters, and is the famili ones by Plenty of Absorbeats, and a Diet of Chicken Broth : But it must be observed with regard to Purging gatives, that Mason agrees best with same, Rhubach with them, Jalap, Mercury, and toasted Rhubach with others; while others are some cured by emplificant Clysters. I as Opinsonly when the Diferse is mild, or after its Violence is a batted by Evacuants and Emplicants."

Scanmony, Aloes, and the other firing refinous and hydragogue Purges, are hartful, and occasion Pain. I always observed, that those Purges andwered both which made the freeh Evacuation, and afted with the greatest Bufe to the Patient; of which the Salts and Manna answered both of any I have hitherto nied."

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every Day, for two, three, or four Days successively, and observed that the Patient, instead of being weakened, seemed stronger, and more brisk and lively, after the Operation of each, from the Relief it gave; by evacuating those putrid, corrupted Humours, which kept him perpetually fick and uneasy, while they remained within the Bowels.

Though Rhubarb did not answer so well in the Beginning as the saline Purges, yet afterwards in the Course of the Distemper, when the Patient did not complain much of Gripes, half a Drachm of Rhubarb, either by itself or in a saline Draught, proved a good gentle Purge; and given with six or seven Grains of Calomel, was found to be a good Medicine, when the Disorder was attended with Worms.

In the Evening, after the Operation of the Purge, we gave an Opiate; and repeated it at Nights, in the Intervals between the Purges; but were obliged to be very sparing of the Dose, while the Disorder continued in its acute State; the Opiate was only given in a Quantity sufficient to mitigate the Pain, and to procure Rest,

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but never so as to stupify the Patient, or prevent a due Discharge by Stool; though we were often obliged to encrease the Dose, as Use made it familiar to the Patient.

In the Intervals between the Purges, we gave in the Day, the Mindereri Draughts with the Mithridate; or the faline Draughts with the Addition of four Drops of the tinctura thebaica; or fome such mild diaphoretic, every four or fix Hours; which helped to keep up a free Perspiration, without any Danger of stopping the Purging; and for the most part anfwered much better than the Diafcord, or Philonium, or other strong Astringents and Opiates commonly prescribed for this Purpose; which were always liable to check the Purging too much, and bring on severe Gripes attended with Heat and Fever (b); and therefore we feldom made Use of them in this first Stage of the Diforder.

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⁽b) Sydenbam, Huxbam, and all good Practitioners, have taken Notice of the bad Effects of the too free Use of Aftringents, and given Cautions against it.

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If the Patient was attacked with severe Gripes (i), and a Tenesmus, which the Purgatives and gentle Opiates did not relieve, we ordered the Abdomen to be somented with warm Stupes; and the Patient to drink freely of warm Barley or Rice-water, or of weak Broth (k), or an Insusion of Camomile Flowers, as recommended by Dr. Pringle; and ordered first Clysters of large Quantities of the plain emollient Decoction to be given; and if the Gripes still

(i) If the Patient was suddenly attacked with sharp Pain of the Bowels and Gripes, on a Day in which he had not Physic, a Dose of the Salts and Manna was commonly given immediately, to empty thoroughly the first Passages.

(k) Mr. W. Rassel told me, that he and Dr. Huck found the free Use of the following Emulsion, made of Bees Wax, to be of great Use after Evacuations, where there was much Pain of the Bowels, in recent Cases of Fluxes in the Hospitals in America. R. Cerze alb. vel flavæ drachmes tres. Sapon. alb. Hispan. drachman unam. Aquæ fontanæ, unciam unam, liquestant super ignem in vase serveo, agitando spatula, & dein insunde in mortarium marmoreum, & adde paulatim aq. sontanæ, libras duas syrapi sacchari. spiritus vini gallici tenuis, vel aquæ alicujus spirituosæ ana unciam unam, terendo optime ut siat emulsio.

This Method of diffolving Bees Wax, in a Watery Liquor, is entirely new; for before this we knew of no Way of making it miscible with Water.

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continued, to be repeated in small Quantities, with the Addition of a Drachm or two of the tinctura thebaica; for we observed that Opiate Clysters often gave more Relief, than Anodynes administered in any other Way; and sometimes, when a Tenesmus was very troublesome, the common oily Clyster, with a little Diascord, and tinctura thebaica, or the Starch Clyster, gave more Ease than any other.——In some Cases, where the Pain was sharp, attended with a Fever, we were obliged to take away more or less Blood; and sometimes also to apply a Blister to that Part of the Abdomen where the Patient selt most Pain.

During this Course, the Patients used the common low Diet of the Hospital; when they loathed the Rice-Gruel, they had Panado with a little Red Wine and Sugar; or Water-gruel, when it could be got, in its Place.—
Their common Drink was Barley or Rice-water; of which it was recommended to them to drink plentifully; as nothing contributed more to the Cure than the free Use of such Liquors, to dilute and

and blunt the Acrimony of the Fluids (1). In fome Cases, when the Purging was violent, and not accompanied with the malignant Fever, the decoctum album was found to be a good Drink; and we added occasionally a few Drops of the tinctura thebaica.

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Such were the chief Remedies we used in the first Stage of this Disorder; but after some Weeks, when the Fever had abated, and free Evacuations had been made, and the Complaint become in a manner chronic, we were obliged to try other Methods; and sound that the best Way of treating this Disorder, was, to endeavour to brace and restore the Tone of the Intestines, by means of the corroborating and gentle astringent Medicines, mixed with Opiates;

(1) Dr. Huxbam (de Aere, Vol. II. p. 107.) fays, there is no Disorder in which a diluting, sweetening Drink is more necessary than in this; that he has done great Service among the Poor by luke-warm Water; that, after emptying the Bowels thoroughly, he has sometimes cured this Disorder by the Use of pure Water, and a small Quantity of Opium. And Baglivi (Prax. Med. lib. i.) tells us, that the drinking of common Whey, and throwing up frequent Clysters of it, had cured many, and that this was sooked upon as a Specific, and kept a Secret by some.

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while mild Purgatives were given at proper in-

The Patients were kept to the same low Diet as before, with the Addition of a little Wine or Brandy. They were allowed from a Gill to a Pint of red Wine per Day, which was commonly mulled before it was given them; when the Wine griped them, which it frequently did, they took in its Stead Half a Gill or a Gill of Brandy, mixed with a Pint or a Quart of Barley or Rice-water, or of the decottum album.

In this Stage of the Disorder we found, that the same Medicines would not answer with all, and therefore we were obliged to try Variety (m); and

(m) Dr. Pringle, in the fourth Edition of bis Observations, just published, in treating of the third or last Stage of the Dysentery, remarks, that this is the Time for Astringents, which ought not to be given sooner, or at least very sparingly. And he tells us, that, in the former Editions of his Work, he mentioned those Compositions which he had most frequently used, but that he had now laid most of them aside; and at present trusts to Vomits, and to a Milk Diet, for the perfect Cure.

He says, "Whenever therefore the Patient is in this State, "and especially when his Pulse is quick, and he complains of inward

and indeed, unless where the Violence of the Disorder had abated by the Use of Evacuations, the Event was always very doubtful; for when the Complaint had continued long and become chronic, and the Structure of the Intestines was much hurt, before the Sick were sent to us; or when it continued obstinate, and yielded but little to Evacuations, and the other Methods used in the first Stage, even Remedies esteemed

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of ard "inward Heat, I began with giving him a Scruple of Iperacu"ana; and the next Day I put him upon the Milk-Diet; which
"I continue till all the hectic Symptoms are gone, and till the
"Bowels have recovered their Tone. During this Course I
"have seldom had Occasion for any other Medicine, excepting
"the Chalk Julep mentioned before, which I use for correcting
"that strong Acid so incident to relaxed Stomachs. Some"times also I add an Opiate to procure Rest at Night; but after
"a few Days these are likewise laid aside. All that I require
"(which indeed is often hard to obtain) is a strict Perseverance
"in the low Diet; and now and then a Repetition of the Vomit,
"upon any new Disorder of the Stomach, or great Laxity of
"the Bowels.

"Whilft the Patient continues in this Course, I forbid all a"minal Food and fermented Liquors; and besides Milk, I al"low only the Preparations of Grain, Sago and Salop." See
Part iii, ch. vi. p. 289, 290.

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the most efficacious oftentimes proved unsuccessful, and at length the Patient died.

A Spoonful of the mixtura fracastorii, taken after every loose Stool; and an anodyne Draught at Night, had a good Effect with some—Repeated Doses of the philonium Landinense answered better with others, who were low, and required a Remedy that was warm and cordial—And others found more Benefit from the Mindereri Draughts, with Mithridate, or the confectio cardiaca, or the Theriac anodyne Boluses.

The mixtura Campechensis, both alone and with tinctura thebaica, checked the Purging, and gave Relief sometimes; and the Addition of some of the Extract of Bark and Tincture of Cinnamon, seemed to encrease its Efficacy in one or two old Cases, at Bremen; but it afterwards occasioned such Sickness, that we did not continue its Use.

In other inveterate Dysenteries, where we thought that a strong Astringent was wanted, we added a small Proportion of Allum to the Campechense Julep, which on first using seemed

to be serviceable; but at other Times it occasioned a Tenesmus and Gripes; and therefore we were obliged to be very cautious how we uled it part one sales energy not unit built

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Equal Parts of the electuarium diafcordii and electuarium corticis, taken in the Quantity of a Drachm twice or thrice a Day, was of Use in many old Fluxes (n), though it made other Patients fo fick, that they were obliged to lay it aside. White of the sector of the black

We tried likewise in this Stage of the Disorder, repeated small Doses of the Ipecacuana; but it occasioned such Sickness, that we did not perfift in its Use.

(a) I had lately a very remarkable Instance of the Effects of this Medicine, in the Cafe of one Gilebriff, a middle-aged Man, by Trade a Taylor; who was admitted into St. George's Hospital the 20th of July, 1763, for an old Flux, which had continued above fix Months, and reduced him very low: He had taken a great many Medicines without any Effect. After giving him a Vomit and two Dofes of Pincture of Rhubarb, I gave him four Grains of the Powder of Iperacuana with Opium three Times a Day; but that having no Effect, after using it for above a Fortnight, I ordered him the Electuary of Diascord and Cortex; from the Time he began to use this Medicine, he mended daily; and was dismissed in good Health the abth of September. In

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In other Cases, we gave from two to five Grains of the Ipecacuana, mixed with Opium, in different Proportions (from three Grains to ten of the Ipecacuana to one of the Opium), every four or fix Hours; it gave sometimes a little present Ease, at other Times it occasioned Sickness; we often continued its Use for ten, twelve, or sourteen Days; but it seldom produced any remarkable Change for the better, and we were obliged to have Recourse to other Remedies.

Dover's Powder was given in large Doses, from one Seruple to two; and proved a good Sudorific and Anodyne in some Cases; though in others it made the Patients sick, without producing any good Effect.—It commonly answered better, when used occasionally as a Sudorific, than when constantly continued.

During the Use of these Remedies, it was necessary to repeat the Purgatives from Time to Time; or to mix them occasionally with the other Medicines, in order to carry off any corrupted Humours, or Excrements that might be lodged in the Cavity of the Intestines; for when

when this was neglected, the Patients were often seized with Sickness and Gripes, and a more violent Purging than before:—And if at any Time they complained of Gripes, and passed little Pieces of hardened Excrements, it was mostly a certain Sign that a Purge was indicated; and, on such Occasions, it generally gave Relief; and when attended with Sickness, a Vomit was given before the Purge.

—Clysters were used as in recent Cases, where the Sick were low, or had much Pain of the Bowels (n), or complained of a Tenesmus.

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(n) On the 21st of November, 1759, Hanab Meredith, a mid-dle-aged Woman, was admitted into St. George's Hospital for a Flux, which she had six or seven Weeks; she had no Fever, but complained much of Sickness and Gripes, and her Disorder had reduced her very low. During the two sirst Weeks of her being in the Hospital, she had two Vomits of Ipecacuana and four Doses of Rhubarb; and in the Intervals anodyne and astringent Medicines, which made no Alteration in her Complaints. On the 2d of December, she told me, that two Years before she had had a Flux for above three Months, which had yielded to no Remedies till she was ordered repeated Clysters, and that they had made a Cure in a short Time. I then

In some old Dysenteries, where the villous Coat of the Intestines was much injured, I gave the Cordial Draughts, with the Addition of Half a Drachm of the balfamum copaivi, a Scruple of the Extract of the Bark, and five Drops of

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ordered an emollient Clyster with a drachm of the electuarium diascordii, and a Scruple of the tincura thebaica, to be given twice a Day, which gave her almost immediate Relief; and with the Assistance of some Doses of Rhubarb, and one or two Vomits and occasional Opiates, removed her Disorder by the Middle of January; though she remained long weak, and troubled at Times with Gripes; but these Complaints were at last got the better of by her taking some Doses of Rhubarb, and drinking daily a Pint of Lime Water mixed with Half a Pint of Milk.

Sarah Spencer, a middle-aged Woman, was admitted into St. George's Hospital the 9th of November, 1763, for a Flux, which had continued for two Months, and reduced her very low. She complained much of Sickness and Gripes; her Stools were mostly composed of Mucus and Blood; her Pulse was low, and she had no Fever, but a Whiteness of the Tongue, and complained of Thirst.—The first Day she had a Vomit, and next Day a Dose of the purging saline oily Draught.—She was ordered to have an emollient Clyster, with a Drachm of Diascord, and as much singura thebaica, given her every Evening; and to have a Dose of the saline oily Purge twice a Week, and Opiates occasionally; by following this Course, and drinking at Times the Chalk Julep, her Disorder was removed, and she was discharged the Hospital on the 30th of the same Month.

the tinctura thebaica, three Times a Day. first, this Medicine feemed to promise much, particularly in the Cafe of an old Invalid, William Brookes; who had been long ill of a Flux, attended with Gripes and a Tenefmus. He had used Variety of Remedies, without receiving any Benefit. For the first Fortnight, after he began the Use of this Medicine, he rested well, and found great Relief; and seemed to be in a fair Way of doing well. But the Disorder being too far advanced before he began to use it, he relapsed, and died. On opening his Body, the inner Coats of the Rectum and the lower Part of the Colon feemed to be reduced almost to a gelatinous Substance, and the other Coats were black, approaching to a Gangrene.-The fame Medicine gave Relief in other Cases, but they were too far advanced before it was administered. In these Cases, when the villous Coat of the Intestines was inflamed and very irritable, the mucilaginous Medicines, the pulvis e tragacantha, and such others, were of Service: and frequently Starch Clysters and Anodynes gave G 4

gave Relief, when other Remedies had little Effect. Flower, boiled with Milk, and (weet-ened with Sugar, and given for Breakfast, as mentioned by Dr. Pringle, proved a good Palliative to some; and the Starch and Gum Arabic, dissolved in Water, a good Drink to others.—Lime Water and Milk, drank to the Quantity of a Pint or a Quart a Day, was of use to a few, though it did not agree with all.

It was very common for Patients bad in the malignant Fever to be seized likewise with the Flux. Such Cases were always extremely dangerous; and when the Fever was bad, we were often obliged to neglect the Flux, and only attend to the Fever.—When the Purging was violent, and appeared very early in the Fever, it often sunk the Patients, and soon carried them off: but where it was moderate, and did not appear till towards the Height or the Decline of the Fever, it often proved a Crisis to the Disorder.

When such Fluxes appeared early attended with sharp Pain of the Bowels, and Signs of Inflammation, if the Patient

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was strong, we began the Cure with opening a Vein, which the Patient bore easily,
and it gave Relief; but when the Symptoms were mild, without any acute Pain, the
Bleeding was omitted.—Commonly the Bowels
were loaded with corrupted Humours, when
this Symptom appeared; and, therefore, we
found it of Advantage to give a Dose of the
Salts with Manna and Oil, or some other gentle Purge, to carry them off; and in the Evening an Opiate to ease the Pain and procure
the Patient Rest.

After this we gave the Mindereri Draughts with Mithridate; and as foon as the Pete-chiæ appeared, or we observed any Remissions in the Fever, the Patient took every four of fix Hours, a Drachm of an Electuary, composed of equal Parts of the electuarium corticis and the electuarium diascordii (p); or Half

⁽p) This Practice of giving the Cortex with Opiates in the Dysentery is not new; for Dr. R. Morton, in his Appendix to his second Exercise on the Fevers, which appeared from 1658 to 1691, observes, that after the Plague of 1666 had ceased, a Fever from a milder Poison, attended with Gripes and Dysentery, began to make its Appearance. As the common Methods

a Drachm of the Powder of the Bark, or a Scruple of the Extract, in the Mindereri Draughts, with four or five Drops of the tinctura thebaica; and we repeated the Opiate in the Evening, always proportioning the Quantity of it to the Effects of the former Dofe, and the Violence of the Purging.

thods of Cure proved unsuccessful, and Dr. Morton observed Exacerbations and Remissions, he resolved to give the Bark mixed with Laudanum; and sound it answer his Expectation. The first Patient to whom he gave it, was a man in Long Lane, who laboured under a Tertian Dysentery; upon observing a Remission, he ordered a Drachm of the Bark, mixed with a Grain of Opium, to be given every four Hours for six Times; and this removed both the Fever and Dysentery.—He says, he afterwards gave it, with equal Success, in the Quotidian Dysenteries, where he observed Exacerbations or Remissions; and he adds, that he does not doubt but that it will answer as well in Epidemical Diarrhoea's, and Camp Fevers attended with such Symptoms.

Dr. Whyte of Edinburgh has given with Success a strong Decocition of the Bark, mixed with the confectio japonica of the Edinburgh Dispensatory, in the bad State of the Dysentery, when the Mouth and alimentary Canal were threatened with Aphtha, and even sometimes after they had appeared. And Dr. Pringle mentions his having given the Decoction of the Bark, with Snake-Root and some Drops of Laudanum, in the Dysentery complicated with the malignant Fever. See Note to Page 245 of his third Edition on the Diseases of the Army.

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On the second or third Day, we repeated the Purge; or, if the Patient was weak, ordered a Clyster to be administered in its Place; in order to prevent the putrid Fluids and Excrements from being accumulated in the Bowels; —In other respects we treated it as when the Disorder was not complicated with the malignant Fever.

This Method, though it did not succeed with all, yet it answered better than any other I tried;—and it ought to be remarked, that although it had such a good Effect in Cases attended with the malignant Fever, or where the Fever inclined to the intermittent Kind, it did not answer so well in other recent Cases, but often made the Patient sick.

In military Hospitals, Fluxes are liable to be complicated with other Disorders, as well as with the malignant Fever; especially with Coughs, and pleuritic and peripheumonic Symptoms, when the Weather begins to be cold, in October and November.—In such Cases, when the Patients were strong, we were often obliged to bleed freely, to apply Blisters, and in the Beginning

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Beginning treat the Disorder as inflammatory; having at the same Time an Eye towards the Flux, in the other Medicines we prescribed.

Patients, who have had the Flux long, are apt to have their Legs swell at Nights; or to fwell all over as foon as the Flux has stopped. Such oedematous or anafarcous Swellings, we treated nearly in the same Manner as those which followed the petechial Fever; only that we durft not at first be so free with the Use of Purgatives; for as the Bowels remained weak and eafily irritated, fuch Medicines were apt to bring back the Flux; and therefore, in the Beginning, we were for the most part obliged to attempt the Cure by Diuretics and Diaphoretics; and to be sparing of the Use of Purgatives, especially of those of the hydragogue Kind; though if the Swellings continued for fome Time after the Flux was gone off, and the Patients were strong, we then ventured to give Purges at proper Intervals :-- And Blifters and Scarifications removed them in several Instances both at Paderborn and Ofnabruck. has

In December, 1761, we had a Case of this Kind where the oxymel scilliticum was of remarkable Service. A Soldier, belonging to the Guards, after a Flux, swelled all over, and made but a very small Quantity of Water. He took-Medicines of different Sorts for fome Weeks. but received no Benefit till we gave him the Oxymel Mixture; after taking a few Dofes he made Water very freely, and in large Quantities, and the Swellings of his Body and Scrotum began immediately to subside; and by continuing its Use for a Fortnight, the Swellings entirely disappeared, and he recovered his Health and Strength.-The Oxymel, at the same Time that it promoted a Flow of Urine. kept his Body gently open, but did not occafion any Return of the Flux.

At the Beginning of January, 1762, one Carter, a Soldier of the Eleventh Regiment of Foot, laboured under an universal Anasarca; which about two Months before had succeeded a Flux. He made but very little Water, and that of a high red Colour. He took Va-

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riety of Medicines, as Purges, Vomits, Dover's Powder, lixivial and neutral Salts with Oplates, Infusions of Horse-Radish, all without Effect: till he was ordered small Doses of Calomel. three Grains Morning and Evening. After the third Dose he began to make Water freely; and by the 24th of January the Swellings were all gone, and he was shipped off for England the 8th of February; having been discharged from his Regiment. The Ship, he went aboard of, was detained in the River Wefer for above fix Weeks, and the malignant Fever broke out aboard the Transport: He took the Distemper, and got well of it; but towards the Decline was seized with a Return of the Flux, which carried him off.

When these oedematous Swellings came after the Purging was stopt, if the Patient's Strength was not much exhausted, and he laboured under no other Disorder, he commonly got the better of it:—But when the Strength was gone before the Swellings appeared, the Disorder often ended in a confirmed Dropsy, and at last

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in Death; and when the Swellings were universal over the Body, while the Flux yet continued, it was a Sign of great Weakness, and they did not survive it long (q).

(4) Many other Medicines have been used for the Cure of old Dysenteries, ——— The Coness Bark, recommended as a Specific in Diarrheas, cured a Dysentery which had yielded nothing to a Variety of Medicines. Edinburgh Medical Essays, Vol. III. Art. iv.—The cortex eleutherize wel cascarillæ is much recommended for the Cure of Dysenteries in the Memoir. de L'Academie des Sciences a Paris 1719, and is still in great Repute among the Germans.—The Decoction of the semiruba Bark was found to have a good Essect in the Dysentery, where the Patient continued to void Blood with his Stools; and when the Stools were only liquid, without a Mixture of Blood, some of the Cascarilla added to the Decoction encreased its Essect. See Degnarus's Treatise de Dysenteria, cap. iii. 19.7. 55. These and many other Remidies have been tried in obstinate Dysenteries.

From what I have observed myself, and from the Accounts of others, I am now convinced, that such Cases as are not already too far gone, are most likely to be cuted.

1. By keeping the Patients on a low Diet, composed principally of Milk, Sago, Rice, Salop, and such other Things as are recommended by Dr. Pringle; allowing weak Broths, and a small Quantity of white Meat, as they recover their Strength. The common Drink to be Barley or Rice-Water, Toast and Water, Bristol Water, Almond Emulsion, and such like.—By making them wear some additional Cloathing, and guarding carefully against catching cold.—Errors of Diet and Exposure

to Cold being the most frequent Causes of Relapses into this Disorder.

- z. By giving from Time to Time a Dose of some mild Purge; such as a little Manna and Salts; a Solution of Manna in Almond Emulsion; twenty or thirty Grains of Rhubarb, in a saline Draught, or such like; and occasionally gentle Emetics.
- 3. By the Use of some of the mild Astringents and Corroborants.—The Bark, with Astringents and Opiates, agreeing best with some—Decoctions of the Semiruba with others—Chalk in Electuaries, or Juleps, with others—anodyne and astringent Clysters with others—while others receive more Benefit from other Remedies—and severals find themselves better when they use no Medicines of this Kind.
- 4. And by the occasional Use of Opiates, and a free Air: And by moderate Exercise on Horseback, or in a Machine in the convalescent State.

I ought not to omit mentioning, that I have feen fome Cases where Evacuations had been used in the Beginning, which, after they had continued for some Time, were cured by a regular Diet of Broths, and white Meats; riding daily on Horse-back; and drinking a generous good Claret Wine. However, it ought to be remarked, that this Method only succeeded where the Disorder was mild, and its Violence had abated by previous Evacuations.

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THE Cholera Morbus, or a sudden and violent Vomiting and Purging, was very frequent in July and August 1761; and several were attacked with it at Munster.—It was attended with great Sickness, with Pain, and Instation of the Abdomen, Thirst, and a small quick Pulse: Some had it in a pretty violent Degree, but in general it was mild; and although the Sickness, Vomiting, and Purging, continued, in one or two Cases, for above a Day; yet none of those died whom I saw.

This Disorder weakens the Patient much, in a short Space of Time; and sometimes, when violent, kills in less than twenty-four Hours. It is always most frequent in Summer and the

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Beginning of Autumn; and is taken Notice of by Hippocrates, Aretæus, Celsus, and other antient Authors; and is very accurately described by many of them.—It is of the bilious Kind; and the Cure principally depends upon the free Use of warm mild Liquors in the Beginning; to dilute and blunt the Acrimony of the Bile, and other Fluids, and to promote their Discharge; and afterwards of gentle Cordials to support the Strength; and warm Fomentations to allay the Pain when violent; and mild Opiates to procure Rest; and if the Sickness or Griping remains next Day after the Cholera is stopt, to give a Dose of Physic and an Opiate in the Evening.

An Officer, who had been wounded on the 15th of July, at the Battle of Fillinghausen, began afterwards to live very freely, and was on the 4th of August seized in the Night with the Cholera.—About ten o'Clock next Day I was sent for; and found him in violent Agony, with sharp Pain in the Bowels, Reachings, and Strainings to Vomit, and Spasms and Cramps in the Bowels, Legs, and Arms.—He had large red

red Blotches on his Extremities, and no Pulse was to be felt at the Wrift, and rather a Fluttering than a Beating at the Heart,-He had vomited and purged much in the Night before I faw him, but the Purging had begun to abate.-I immediately ordered him an emollient Clyster, and a faline Draught, with the confectio cardiaca, and five Drops of liquid Laudanum; which, if he vomited up, was to be repeated Toon after; if not, only once in four Hours: And he was directed to drink freely of weak Chicken Broth, warm. - Two Hours afterwards we found him in the same Situation; still no Pulse to be felt, which prevented us from bleeding him; and the violent Pain of the Stomach and Bowels, and the Cramps, continued. We then ordered Flannels, dipped in a warm emollient Decoction, to be kept constantly applied to his Belly, dipping them in the warm Decoction as foon as they began to grow cool; his Clyster to be repeated with the Addition of a Drachm of the electuarium e baccis lauri, and Half a Drachm of the tinctura thebaica; a Scruple of Castor, and Half a H 2 Drachm

Drachm of Spirit of Lavender, to be added to each of his Draughts; and a Blister to be prepared, in case these Medicines gave no Relief. -Soon after, beginning to use the Fomentations, the Cramps and Pains began to abate; about four o'Clock in the Afternoon we could perceive a Fluttering of the Pulse at the Wrist, and all the Pains and Cramps were much eafier; fo that there was no occasion for the Blifter.-Next Morning he was very easy, but low, and inclined to be fick; for which his Cordial Draughts were repeated every fix Hours.-The third Day, as he complained of a little Griping in the Bowels, we ordered him a Dose of Tincture of Rhubarb, and an Opiate in the Evening, which entirely removed these Complaints, and he was abroad and well next Day. So. of part Capall make above asset I mi

One Soldier, who had a good deal of Fever, and complained of acute Pain in the Bowels, along with the Vomiting and Purging, was blooded; and drank freely of warm Barley-Water while the Vomiting continued.—After throwing up a Quantity of green bilious Mat-

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ter, the Vomiting ceased; and the Gripes and Purging became less violent.—In an Hour after, being able to retain some very weak Broth in his Stomach, he drank plentifully of it through the Day; and the Purging being abated towards Night, he took an anodyne Draught; and next Day, having still a little Sickness remaining, had a Dose of Physic and an Opiate at Night, which removed all his Complaints.

The Rest, who were attacked with the Cholera at Munster, were treated much in the same Way; only as they had not such acute Pain and Fever as this Man, it was thought unnecessary to bleed them.

The Antients (r) recommended drinking freely of warm Water in the Beginning, and the Use of both cold and hot Fomentations of the Stomach and Belly;—and in the low State, the Use of Wine, mixed with Water, and Polenta (s); and to apply Rue, with Vinegar, and

⁽r) See Aretaus, Lib. ii. Cap. 4. and Celfus, Lib. iv. Cap.

⁽i) The Polenta seems to have been nothing but toasted Barley Meal. See Plinii Hist. Natural. Lib. xxii. Cap. 25.

other strong smelling Things, to the Nostrils; besides Variety of other Remedies. — When Convulsions happen, Celsus (t) advises to anoint the Belly with warm Oil; and if that does not remove them, to apply Cupping-Glasses or Mustard to the Stomach; and, after sleeping, to abstain the second Day from Drink; and the third, to go into the Bath; and if any thing of a Fever remains after the Cholera is suppressed, to give a Purge.

Dr. Sydenbam (u) trusts principally to drinking freely of Chicken Broth, and throwing up Clysters of the same, and afterwards giving Opiates.

Dr. Ayton Douglas, in the fixth Volume of the Edinburgh Medical Essays (w), recommends a Decoction of Oat Bread, baked without Leaven or Yest, and carefully toasted as brown as Cossee, but not burnt; as a Remedy very grateful to the Stomach, and useful in stopping the Vomiting, and sometimes the Purging too: And he relates several Cases

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⁽t) Celsus loco citato.

⁽u) Processus integ, de Cholera.

⁽w) Art. 65.

where it had a good Effect. After the Vomiting was stopped, he added the Use of mild * Opiates; and, where the Patient was low, Wine and other Cordials.

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Winter Expedition into the Country of Hesse, in the Year 1761, we had several Men seized with Inflammatory Fevers without any topical Inflammation; and at the Opening of each Campaign had always Numbers sent to the Hospitals ill of this Disorder. Towards the End of the Campaigns, and throughout the Winter, many were seized with Inflammatory Fevers; but these were mostly complicated, with pleuritic, or peripneumonic Symptoms, or other topical Inflammations, or with rheumatic Complaints.

In the Inflammatory Fever, the Sick were feized at first with cold and hot Fits, succeeded

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Of the Inflammatory Fever. 103

by Pain in the Head and all over the Body. The Pulse was strong and quick, and the Blood sizy; attended with other Appearances commonly observed in such Fevers.

As the Summer advanced, this Fever was often accompanied with bilious Symptoms, with Sickness, and vomiting of bilious Matter, and very frequently with a Purging: Towards the End of Summer it ceased, and was succeeded by the bilious remittent Fever.—And it was no uncommon Thing to see those Fevers, which originally were entirely of an inflammatory Nature, after the Sick had been some Days in a crowded Hospital, partake a good deal of the Nature of the Malignant Fever, or be changed entirely into it.

We treated these Fevers in the common antiphlogistic Method.—We blooded freely in the Beginning; gave the saline Draughts with Nitre and other cooling Medicines; and made the Patients drink plentifully of small Liquors:—And when they were inclined to be costive, gave mild Purges, or emollient laxative Clysters. We afterwards applied Blis-

106 Of the INFLAMMATORY FEVER.

cordials, Wine, and other Remedies commonly employed in such Cases;—and towards the Decline of the Fever endeavoured to promote such Evacuations as were pointed out by Nature, and likely to prove critical.

When the Case was complicated with bilious Symptoms in the Beginning, we were obliged to have particular Regard to the first Passages. If the Patient complained much of Sickness, we gave a gentle Vomit in the Evening, after bleeding; and a Purge next Day, to carry off any bilious or corrupted Humours that might be lodged in the Stomach or Intestines; and we found that these Evacuations gave Relief, and generally mitigated all the Symptoms.

If at any Time during the Fever a Loofeness came on, especially when attended with Gripes, we gave a Dose of some gentle Physic, which made a free Evacuation; and an Opiate in the Evening after its Operation; and afterwards we found it answer better to attempt rather to moderate, than wholly stop the Purgi

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ing by strong Astringents, and Opiates; unless where the Evacuation by Stool was so great as to be in Danger of sinking the Patient.

The pulvis antimonialis, composed of ten Parts of the pulvis e chelis, and one Part of the Tartar emetic, given in small Doses, was serviceable in many of these Fevers, after free Evacuations had been made.

Two Patients, one a Soldier of the Twentieth Regiment, the other a German Waggoner. were taken ill of this Fever about the 25th of December, 1762: They were both blooded freely, and had a Dose of Physic in the Beginning; and the faline Draughts with Nitre and other cooling Remedies; and had Blifters apwithout producing any confiderable Change in their Disorder.—On the 5th of January, 1763, they both complained much of Thirst, and were inclined to be costive; their Tongues were parched, their Pulses quick and small, and their Skins dry; they were restless at Nights, and the Soldier had a flight Delirium.—I ordered each of them four Grains of the pulvis antimonialis every four Hours.

6th.

108 Of the INFLAMMATORY FEVER.

6th. Next Day the Soldier told me, he had had four loose Stools; his Senses were much clearer, the Pulse calmer and slower, and he said he found himself lighter and easier, and less severish, than he had been since he was first taken ill. The Medicine was continued, with the Addition of an anodyne Draught at Night.—7th. I found him in a fine breathing Sweat, and he told me he had slept well in the Night: p.—8th. The Sweat continued till this Morning, and on going off his Urine let sall a copious white Sediment, and left him free from the Fever; after which he mended daily.

The Waggoner, after taking the third Dose of the Powders, had a warm Moisture upon the Skin.—On the 6th was cooler and without much Fever, and had had one Stool.—7th. The warm Moisture ended in a profuse Sweat, which carried off the Fever, and he continued to recover daily.

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MANY of the Soldiers during the Campaign were seized with Inflammations of the Throat, especially when the Nights were cold and moist after warm Days; and when they did Duty in cold wet Nights in the Winter Season.—All of them I saw in Germany were of the inflammatory Kind; I did not observe any that were malignant.

They were treated in the antiphlogistic Method.—The Patients were blooded liberally in the Beginning—took the cooling nitrous and saline Medicines—gentle Diaphoretics and Purgatives—and used frequent Gargarisms.

Sometimes a Flannel rubbed with camphorated Oil, or the *linimentum volatile*, and applied round the Neck, was of Service.—And frequently after bleeding fufficiently, where the Breathing or Swallowing was difficult, the Application of a large Blifter to the Neck gave speedy Relief.

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THE Pleurify, or an acute Inflammation of the Side, was most frequent among the Soldiers towards the latter End of the Campaigns; though some were attacked with it at all Times of the Year, from doing Duty in all Sorts of Weather.

We followed the antiphlogistic Method of Cure; and ordered plentiful Bleeding in the Beginning, till the Violence of the Pain began to abate, or the Patient grew faint;—and the Side to be fomented with Flannels dipped in warm emollient Decoctions, and afterwards rubbed with volatile Liniments: At the same Time the Patient drank freely of warm diluting

ing Liquors, as Barley Water, the pectoral Deeoction, and fuch like; and took the faline and other cooling Medicines, mixed occafionally with Sperma Ceti, or some other soft Pectorals, if there was a tickling Cough.— When the Patient was costive, we gave a Dose of Salts, or some other mild Physic, or laxative Clysters.

If the Pain continued very acute, we repeated the Bleeding as often as Necessity seemed to require, and the Pulse could bear; and immediately after the second Bleeding ordered a large Blister to be applied to the Part affected.

Physicians formerly used to forbid Bleeding after the fourth Day, if it had been omitted so long; but when no Symptoms of Suppuration had already appeared, on whatever Day of the Disorder it happened, I ordered plentiful Bleeding, the same as in recent Cases; and never found any Disadvantage, but often great Service from this Practice.

When the Sharpness of the Pain was gone, and the Pulse became fost, very often a dull Pain Pain remained for some Time in the Part.——In some Cases a brisk Purge removed it;—in others, cupping above the Part, and afterwards rubbing it with the volatile Liniments, did Service;—in others, gentle Opiates at Night, elepecially where there was a tickling Cough;—and in one or two Cases, this Pain did not go away, till the Patient was ordered to drink every Day for some Time, a Quart of the Decoction of Sarsaparilla with the antimonial Wine.

In the Course of this Disorder, if a kindly Moisture broke out on the Skin, which gave Relief, this was encouraged by the Use of mild warm Liquors; or if the Patient began to spit up a viscid or yellowish Mucus, we endeavoured to keep up the Expectoration by the Use of mild Pectorals; and if a Purging came on, we were careful not to check it too soon, unless it was so violent as to be in Danger of sinking the Patient.

When an Inflammation of the Side came to Suppuration, which happened in one or two Cases at Osnabruck, in May 1761; as soon as a Fluctuation of Matter was to be felt, an Incision

was made in the Part, and the Matter difcharged; after which the Sore healed kindly. and the Patients recovered (a). I am perfuad. ed, was this Operation oftener performed, many would recover who die confumptive.

(a) Dr. Mead advises, where the Lungs and Pleura grow to. gether, and an Abscess forms, to open it with Caustic; and afterwards to keep the Ulcer open during the Patient's Life: For he fays, he has often feen, where fuch Sores were healed up, that the Patient died foon after by an Efflux of Matter upon the Breaft. Monita Medica, Cap. i. Seet, 7

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PERIPNEUMONY.

THE Soldiers were subject at all Times to the Peripneumony, or Inflammation of the Lungs, from doing Duty in cold wet Weather, and from their irregular Way of living; but more particularly towards the End of the Campaigns, and in Winter.

This Disorder was much more dangerous and fatal than the Pleurisy, especially when neglected in the Beginning; for then Bleeding had seldom any Essect; the Dissiculty of Breathing encreased, the Patient was seized with an Orthopnea, and such an Anxiety and Sense of Sussociation, that he could not sleep; and the Pulse sunk; and in these Cases Death only afforded Relief. This we experienced in many

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Men

116 Of the PERIPNEUMONY.

Men who had lain neglected in Quarters, for two, three, four, or five Days, before they were brought to the Hospital.

In most of the Bodies of those who died of this Disorder, and were opened after Death; we found the Lungs violently inflamed, with livid or gangrenous Spots on their Surface; and more or less of a watery Serum extravasated into the Cavity of the Chest.

Three had Suppurations in the Lungs. In one, who had lain fick in Quarters for ten Days or upwards, before he was fent to the Hospital, the right Cavity of the Thorax was found full of a watery Serum; and the Lobes of the Lungs on the fame Side almost entirely wasted; and what remained feemed as it were composed of thickened Membranes, refembling those formed by the coagulable Lymph, or what is called by some (though improperly) the fibrous Part The Lobes in the left Side of the Blood. feemed to be in a found State, or at most but flightly inflamed. From the right Lobes of the Lungs being fo much wasted, I suspected that the Patient had probably laboured long under

under some Disorder of the Breast; but I could not from Enquiry obtain any Information in this Particular; nor did he ever mention fuch a Thing during the few Days he lived after being brought into the Hospital; he said, he had only been ill for eight or ten Days before: but Soldiers afflicted with chronic Diftempers, when they are feized with violent Symptoms, or acute Diseases, are apt to reckon the Beginning of their Diforder, only from the Time they are taken ill in a violent Manner; and never to take any Notice of their former Complaints w anight will be unyet adult adde

Another Soldier, about the Middle of February, 1762, remained in Quarters five Days after being taken ill with a Pain of the Breaft, and a Difficulty of Breathing; the fixth Day he was brought to the Hospital in the Morning, and I faw him about eleven o'Clock; he then had all the Symptoms of the true Peripneumony, attended with a strong hard Pulse. He was immediately blooded as freely as his Pulse would bear, had Blisters applied, and other Remedies used; notwithstanding which,

on the eighth Day from that Time, he began to throw up a purulent Matter in great Quantity, attended with a constant hectic Heat, and Fever; which sunk him so fast, that he died the tenth Day, after he first began to expectorate.

On the 2d of March, a Soldier, of the Fiftyfirst Regiment of Foot, was brought to the Hospital, with a violent Pain in the left Side, and a great Difficulty of Breathing. Upon examining him, he told me, that about two Years before he had had a violent Stitch in his left Side, towards the lower Part of the Thorax: that ever fince he had been subject to a Difficulty of Breathing; and at Times to a Pain in the Side; but that he had only been seized with the violent Pain and Difficulty of Breathing he then complained of, about five Days before, occasioned by catching Cold, on being billeted in a low, cold, and damp House. His Pulse was quick, the Pain of his Side and Difficulty of Breathing so great, that he could not sleep, nor fie down, but was obliged to fit constantly in an erect Pocture; his Tongue was white

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white and furred, and he had had no Stools for three Days: He was ordered to be blooded immediately; and to take a Dose of Salts; and his Side to be rubbed with the linimentum volatile. 2d. His Breathing and Pain of the Side were easier; he had slept a little in the Night, and could lie on his right fide, but not on his left. He was ordered the Squill Mixture. 4th. His Breathing was worfe; he was blooded a fecond Time; had a large Blister applied to his Side, and was ordered to continue the Use of the Squill Mixture. On the 5th, 6th, and 7th, he feemed eafier, though the Breathing was still much affected, and his Pulse quick and low, attended with a hectic Heat. On the 8th, he told me that his left Side was fwelled: On examining, I observed a Fullness in that Side of the Thorax; and on preffing with my Fingers between the Ribs, I thought I felt an obscure Fluctuation of a deep-seated Fluid. From these Appearances, and the History of the Case, I judged that there was a Collection of some Fluid within the Cavity of the Cheft;

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and that the only Means left to give Relief, was to make an Opening into the Cavity, and fo evacuate the Fluid. I therefore proposed to him the Operation of the Empyema, to be performed immediately; which he feveral Times obstinately refused to submit to: He allowed a Seton to be put in his Side, but that did not answer the End proposed: He languished six Days longer; and died the 14th of March. Next Day an Opening was made in the Thorax, in the Part where the Operation was proposed to have been performed; as soon as the Pleura was cut through, some Quarts of Water rushed out. We then opened the Thorax, and found still fome Water in the left Cavity. The Pericardium was thickened, and flightly inflamed, and adhered to the Diaphragm; which was likewife a little thickened and inflamed in the adhering Part; the Lungs on that Side were much compressed, and contracted by the Pressure of the Water; but on being inflated and cut, feemed in a found State, except that they were flightly inflamed. The

Lungs

Lungs of the left Side adhered every-where firmly to the Thorax, but feemed otherwise found; having no Tubercles, Suppuration, or other Disorder, that we could observe in cutting them. The Heart and Blood Vessels were found, and no other polypous Concretions were observed within their Cavities, but such as we find in most dead Bodies; which seem to be formed of the coagulable Lymph in articulo mortis. The Viscera of the Abdomen were in a found State.

We treated the Peripneumony nearly as the Pleurify. We bled freely in the Beginning, till the Breathing became easier, or the Pulfe began to fink; taking Care not to be deceived by a low oppressive Pulfe, which generally role upon Bleeding. We applied large Blisters; gave the mild Pectorals freely, and plenty of warm diluting Liquors, Barley Water, the pectoral Decoction, and such like; which afforded more Relief than any other Medicines. We gave too saline Purges, and laxative Clysters occasionally; and in some Cases ordered the Steams

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Steams of warm emollient Decoctions with.
Vinegar to be drawn into the Lungs.

By this Treatment most of them, who applied early for Relief, got the better of the Disorder.

When the Expectoration began, the Patient continued the free Use of the mild Pectorals, and diluting Liquors; and no Medicines were given that might in the least tend to stop it; other Evacuations were omitted, unless where the Pain of the Breaft, or the Difficulty of Breathing increased; in which Case, if the Pulse kept up, I ordered a Vein to be opened, and a fuitable Quantity of Blood to be taken away; no other Remedy affording any Relief, till this Evacuation was made. Where the Patient was costive, we frequently ordered laxative Clysters, or a mild Purge, and found them beneficial: But where no fuch Symptoms occurred, it was best, for the most part, to omit all Evacuations of this Kind, after a free Expectoration had begun, and to trust to it for carrying off the Disorder.

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In some Cases, where the Expectoration stopt suddenly after bleeding, we gave with Advantage a gentle Vomit, as recommended by Dr. Huxbam (a).

(a) Some late Authors feem to look upon the Pleurify and Peripheumony as the same Disorder: However, though it be true, that when the Pleura is inflamed, the Surface of the contiguous Lungs is generally in the same State; and that, when the Lungs are inflamed, the Pleura is often affected; yet as I have frequently feen the true Peripneumony without that sharp Pain of the Side which characterizes the Pleurify; and upon opening the Bodies of People who have died of the Peripneumony, have found the Lungs violently inflamed and livid, and fo filled with Blood as to fink in Water, without the Pleura being much difeafed; and upon opening the Thorax of others who died of the Pleurify, have found the intercostal Muscles and Pleura violently inflamed with livid Spots, and only a fmall Portion of the Surface of the contiguous Lungs affected; I cannot help still looking upon them as distinct Disorders; though they require nearly the same Treatment, and are often complicated together.

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Cough and Consumption.

COUGHS were very frequent during the Winter, and when the Weather was wet and cold. They were often accompanied with Pains of the Breast; and, when neglected, Obstructions, Tubercles, and Suppurations, were apt to form in the Lungs, and the Disease to end in a Consumption, or Phthis Pulmonalis.

When Coughs were flight, guarding against further Cold, and the Use of mild Pectorals and warm Drinks, removed them. But when the Patient complained of a Pain and Tightness about the Breast, it was always necessary to take away more or less Blood; and after Bleeding to give some of the mild Pectorals, such as

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the Sperma Ceti or oily Mixtures; and, if a Fever attended, to join the Use of Nitre, or of the faline or mindereri Draughts; and, if a tickling Cough was troubleforne, to give frequently a Tea Spoonful of the oily Linctus, acidulated either with the Spirit of Vitriol, or the exymet feilliticum. The mild Diaphoreties, fuch as the mindereri Draughts, given along with warm Drinks, to promote a free Perspiration, or Sweat, were used with Advantage; when the Patients kept in Bed, and lay in Wards which had Stoves in them.

If the Cough and Pain of the Breaft were not relieved by these Means, the Patient was bled a fecond Time, and a Bliffer applied to the Side immediately after; which often removed most of the Complaints. When it did not, we gave the pectoral Decoction for common Drink; and if there was a Shortness or Difficulty of Breathing, the squill Mixture, or lac ammoniacum, with Oxymel; and occasionally gentle Purges: And if at any Time of the Diforder the Tightness and Pain of the Breaft bearing to tome of the mine Pedorals fuch as

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no other Remedy affording Relief.

When there was little or no Fever, and a thin Rheum kept up a tickling Cough, nothing had a better Effect than to add some Drops of the tinctura thehaica, or some of the elixir paregoricum, to the oleagenous or squill Mixtures; or to give an Opiate Draught or Pill at Bed-Time, which eased the Cough, and procured the Patient Rest.

At all Times it was necessary, when the Cough was violent, attended with Pains of the Breast, to keep the Patients on low Diet; and in as free and pure Air as the Nature of the Hospitals would admit of; for we often found that those Men who had laboured long under obstinate Coughs, which threatened Consumptions in small crowded Wards, recovered surprisingly on being removed to a freer Air; of which we had a remarkable Instance in the Hospital at Bremen, in January 1762; upon removing some Men, afflicted with very bad Coughs, out of small Wards, which were damp, into one large one, which was dry and airy.

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When the Weather was good, we made the Patients walk out a little in the Day-Time; for we observed, that remaining always in the Hospital, and breathing nothing but a foul Air, helped to encrease the Disorder.—When we knew the Men to be sober, and not apt to commit Irregularities, we used to procure them good Billets, and make them come daily to the Hospital for their Medicines.

Equal Parts of Lime-Water and Milk, drank to the Quantity of a Quart a Day, was of Use to some; and the *insusum amarum*, and other gentle Bitters, taken to the Quantity of an Ounce or two, Morning and Evening, to others (a).

(a) Asses Milk, and Bristol and Selezer Waters, which are found so serviceable in pulmonic Disorders, could not be had in the military Hospitals; and riding on Horseback was too expensive a Remedy for a Soldier.

In chronic Cases, where we suspect Obstructions and Tubercles to be formed in the Lungs, which have not already come to Suppuration, Dr. Russel recommends the Use of Sea Water for resolving them; but we were at too great a Distance from the Sea to try this Remedy. See his Treatise on Sea Water, Page 17.

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A Decoction of the Cortex removed fome Coughs which had continued for a confiderable Time. In one or two of these Cases, flight hectic Symptoms had already appeared (b). However, for the most part, where-ever Ob-Rructions of the Lungs were confirmed, or there were evident hectic Symptoms without

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(b) Mary Shepperd, a Woman twenty-fix Years of Age, was admitted into St. George's Holpital the 6th of June, 1750, for a Cough; attended with a constant hectic Fever and Night Sweats, which had begun in the Month of April, after the Measles. She complained likewise of having the fluor albus, and the had been blooded more than once before the came to the Hospital .- I at first gave her some of the mild Pectorals; and a Solution of White Vitriol in Water, utenda pro infell. utering. After a Week, finding no Alteration in her Complaints, I advised her to become an Out-patient; and to go down to her Friends in the Country, to live upon a Milk Diet; to take gentle Exercise, and continue the Use of her Medicines; which e did, but without any Alteration in her Disorder, till the 6th of July, when I ordered her to take thrice a Day two Ounces of the Decoction of the Cortex, along with a faline Draught. Immediately, on beginning to use this Medicine, her Disorder began to take a favourable Turn; her Fever and Night Sweats left her, her Cough became easier, and she recovered Health and Strength daily. She came to the Hospital the 15th of August, seemingly in good Health, to return Thanks for her Cure.

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a free Discharge of purulent Matter, the Bark did no Service; but rather heated and increased the Rever, and made the Sick more restless and uneasy.—It was of most Use where there seemed to be no confirmed Obstructions, but the Vessels much relaxed; which we judged to be the Case from the Patients having no fixed Pain, nor the Breathing much affected. If the Sick were plethoric, or in the least service, we ordered a little Blood to be taken away, before we began the Use of this Medicine.

In fimilar Cases, I have sometimes observed good Effects from the Use of the Balsam Go-paivy, or Peru; given either in Juleps or made up into an Electuary, as in the electuarium e spermate ceti cum balsamo; but in whatever Form they were given, if there were confirmed Obstructions of the Lungs, they rather heated and inflamed, than did any real Service.

When Coughs continued long, attended with Pain in the Side, Difficulty of Breathing, and Hectic Fever and Night Sweats, we always

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had Reason to suspect, that the Disorder would terminate in a confirmed Consumption. When this was threatened, we found, that the principal Thing to be done, was to keep the Patients cool; and to endeavour to allay the hectic Heat and Fever; and to retard, as much as possible, the Progress of the Disorder. When the Case was recent, we were sometimes so lucky as to make a Cure; but after it was confirmed, it for the most part ended fatally.

We kept the Patients upon a low Diet; and where-ever Milk was to be got easily, we allowed them a Pint a Day (c); which was either mixed with Water and given for Drink, or they took it to Breakfast or Supper.—Their common Drink was either Barley Water or the pectoral Decoction; which was occasionally acidulated with a few Drops of Spirit of

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⁽c) In private Practice, at this Stage of the Disorder, the Use of Asses Milk, and drinking the Bristol Water at the Bristol Wells, and riding on Horseback daily, are justly ranked amongst the most efficacious Remedies; and going into the more southern Climates, as the South of France, Portugal, or Italy, where the Air is warmer, more constant, and dry, than in England, has often been sound to produce good Effects.

Vitriol; and we gave at the same Time the cooling Medicines, such as Nitre, the saline or mindereri Draughts, mixed at Times with Sperma Ceti, or some other of the mild Pectorals.

The opening a Vein, and taking away from four to eight Ounces of Blood (d), whenever the Pain of the Breast was troublesome, or the Patient was hot and restless at Nights from the Hectic Fever, gave the greatest Relief of any Thing we tried; and these repeated small Bleedings were so far from wasting the Patient's Strength, that they rather seemed to prevent its being exhausted so fast as otherwise it would have been, by allaying the Force of the Hectic Fever.

At this Stage of the Disorder, we put in Settons, or ordered Issues, to serve as a Drain to carry off the Matter, and found them of Advantage in some Cases. When the Patients

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⁽d) This Practice has been strongly recommended by Dr. Mead, in his Monita Medica, Sect. x. and by an anonymous Author in the Edinburgh Medical Essays, Vol. IV. Art. 28. and Dr. Mead says, when Things have not been quite desperate, he has seen good Success from it.

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complained of any fixed Pain, we always made the Issues as near the Part affected as possible (e). On the 5th of May, 1762, a Man, belonging to the Eighty-eighth Regiment of Foot, was sent to the Hospital at Bremen for an Hæmoptoe, attended with a constant hectic Heat and Fever.—After being blooded, and using the cooling Remedies without Success, he had four Pea Issues made in his Back; and had a slight Decoction of the Cortex, acidulated

(e) In June, 1748, a Servant Girl came to alk my Advice for a Cough, attended with a conftant Hectic Fever and Night Sweats, which had begun fome Months before, on catching Cold. The Matter she spit up was yellow, and had the Appearance of Pus; and the complained of a Pain in the left Side of the Thorax, I ordered her the faline Mixture with Sperma , Ceti to be taken thrice's Day, to lose a little Blood, to drink an Infusion of Linseed sweetened with Honey, and to have a Seton put in her Side at the Part where the complained of Pain; advising her to go home to her Father, who was a Farmer in the Country, and to live upon a Milk and Vegetable Diet, and ride on Horseback whenever she could conveniently. She feemed fo far gone in a Confumption, that I scarce expected to fee her again; but, in the Month of December, she came to return me Thanks for her Cure, feeming then to be in good Health. She told me, that, as foon as the Seton began to discharge freely, she found Relief; and mended afterwards daily, by following the Directions I had given her. 302 Date

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with Spirit of Vitriol. As foon as the Iffues began to discharge freely, the hectic Heat, Fever, and Spitting of Blood, diminished daily; and he recovered his Health and Strength in a thort Time. However, it ought to be observed, that although these Drains are sometimes efficacious, yet, when the Disease is far advanced, the Mischief is generally too deep rooted for them to be of any Service.

The Bark, and natural Balfams, for the most part were prejudicial, and encreased the Hectic Heat and Fever; except in one or two Cases. where the Diforder feemed to depend on a Vomica of the Lungs, and the Patient coughed up the Matter freely .- In one Case they were of confiderable Service; the Patient was very low, and had the Night Sweats, but coughed up the Matter freely: On using the Decoction of the Bark, and the electuarium e spermate ceti cum balfamo, the Matter expectorated became thicker, and of a more balmy Confistence, without any Increase of Heat or Fever; after which the Symptoms became gradually milder, and the Patient recovered.

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134 Of the Cough and Confumption,

In the Course of this Disorder the Patients often became very hot and restless, and were troubled with Gripes, succeeded by a Purging: These Symptoms were most readily removed by a Dose of Rhubarb, or of some other mild Purge; for they generally proceeded from corrupted Humours lodged in the Intestines. In the Evening, after the Operation of the Purge, we gave an Opiate to procure the Patient Rest.—When the first Dose of Physic did not stop the Purging, we repeated the Opiates at Nights, and in a Day or two gave another Purge; and if there was much Sickness, or Load at the Stomach, gave likewise a gentle Emetic.

If the Purging still continued, we were obliged to join the Use of Astringents along with the Opiates. In some Cases, I sound good Essects from equal Parts of Milk and Water boiled with Rose Leaves, Pomegranate Bark, Balaustine Flowers, and Cinnamon, as recommended by Dr. Mead in his Monita Medica (f); it served

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both for Food and Medicine. - When Opiates and Aftringents were given to stop the Purging at its first Appearance, before the Bowels were emptied, they always did Mischief; and increafed the Heat and Fever; And although they stopt the Purging for a few Hours, it always broke out with greater Violence afterwards

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When the Sick were attacked with a Shortness and Difficulty of Breathing, which was not relieved by Evacuations, and the Use of cooling Medicines, and Pectorals, and Blifters, nothing gave so much Ease, or had such a good Effect, as a gentle Vomit; for it often removed the immediate Oppression from the Breast, and helped to pump up the Matter from the Lungs.

In the advanced State of the Consumption, the Cough was always very troublesome; and the Sick found no Relief but from Opiate Medicines, which, in fuch Cares, cannot be expected to do more than give a little present Eafe.—As they were apt to obstruct the free Expectoration, we generally mixed them with

K4 fome 136 Of the Cough and Confumption.

fome oxymel scilliticum, or tinctura fætida, which took off a good deal of their suffocating Quality.

Dr. Barry (g) advises for the Cure of a Consumption, to make an Incision or Aperture into the Side; where-ever there is a fixed Pain attended with a Weight, a Hectic Fever, and other Symptoms of an evident Suppuration: He says the Pleura is thickened, and the Lungs adhere at the Part where they are exulcerated; and that by the Operation the Pus may be evacuated, and a Cure made; and he gives several Instances of the Success of the Operation, when performed in Time.

(g) Treatise on the Digestions, p. 410.

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Epidemical CATARRHAL FEVER

Of APRIL, 1762;

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THE INFLUENZA.

A FTER a very cold severe Winter at Bremen, the Weather, from being very cold, became of a sudden extremely hot, about the 10th of April. In a sew Days after, many People were seized with a violent Catarrhal Disorder. It often began with such a Cold and Shivering, that many imagined at first that they were going to have Agues; but soon after they were attacked with a Cough, and a Difficulty

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culty of Breathing, and Pain of the Breaft, with a Head-Ach, and Pains all over the Body, efpecially in the Limbs .- The first Nights they commonly had profuse Sweats. In several, it had the Appearance of a remitting Fever, for the two or three first Days .- Many had a slight Inflammation of the Throat, and a Hoarfenels. In all it was attended with an acute Fever in the Beginning, and the Urine was of a high Colour; and when the Disorder had put on the Appearance of a Remittent Fever in the Beginning, it dropt a Sediment towards Morning after the feeond Day; and did the fame in all, when the Diforder was going off .- Some had a Purging, but the greater Number were rather inclined to be costive. - The Cough in many was very violent; and the Patients, after each Fit of Coughing, had Reachings, or Strainings to vomit, exactly refembling those which come after violent Fits of the Hooping Cough.-At first the Patients spit up only a little Philegm; but in the Decline of the Diforder, they expectorated freely.-The violent Cough and Deverishness generally continued for four, five,

or fix Days; with others it continued longer and some had a Cough for two or three Weeks after the Fever left them, as pur bus amountal

This Catarrhal Fever feized most of the People of the Town of Bremen, and there were very few of the British who escaped it; at the fame Time, it was epidemical in most Count tries in Europe.

We treated it entirely as an inflammatory Disorder, and none died who applied early for Relief .- Most People recovered by one plentiful Bleeding, and taking the mild cooling Medicines, such as the mixtura e spermate ceti cum nitro, the saline or mindereri Draughts, or such like. When the Fever and Difficulty of Breathing continued after the first Bleeding, in a Day or two a Vein was opened a fecond Time; and immediately after a Blister was applied to the Back, which commonly removed the Fever, and relieved the Breathing.-When the Patients were inclined to be costive, a Dose of Physic was of Service.

None of the British died, except one or two of the Soldiers, who remained in Quarters after being

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being taken ill; and, instead of bleeding and living low, indulged in the Use of spirituous Liquors; and were not brought to the Hospital, till they were in the last Stage of a Peripneumony.—Many of the Inhabitants of the Town died of this Disorder, which was probably owing to Want of Care.

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THE Rheumatism is one of the Disorders most generally to be met with in military Hospitals. There were at all Times some Men in our Hospitals labouring under Rheumatic Fevers, or other rheumatic Complaints; though we never had at any one Time a great Number; owing probably to the Weather being very favourable in both the Campaigns of 1761 and 1762.—It was always most frequent when the Weather was wet and cold; both during the Campaign, and when we were in Winter Quarters.

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It commonly began either, i. With an acute Fever, and Pains all over ther Body: or, 2. With Pains in particular Parts, as the Shoulders, Legs, Arms, Knees, and sometimes of the Side, attended with some Degree of a Fever.—The first was the most common Form it assumed, when Men were attacked with it in the Field or in Garrison; owing to their doing Duty in cold wet Weather.—The other Causes generally took place when they had been formerly subject to rheumatic Complaints, and had caught Cold; or after they had been weakened and reduced low by Fevers, Fluxes, or other Disorders.

We had but very few Rheumatisms accompanied with Swelling, Pain, and Inflammation of the Joints of the Knees and Wrists, &c. which are so common in our Hospitals about London. I did not meet with above a Dozen Cases, of this Kind, whilst in Germany with the Army.

When the Rheumatism began with Pains all over the Body, attended with a High Fever, we treated it at first entirely as an Inflammatory

Fever.

Fever (a) We blooded freely, and repeated this Evacuation often (b), if the Blood continued fizy, and the Pains violent; provided the Pulse was strong. When the Pleura, the Lungs, or any other of the Viscera were affected, we blooded as freely as we should have done in acute Inflammations of these Parts:

- (a) Sydenham, in treating of this Disease, orders Bleeding, and that to be repeated next Day; and afterwards every other Day; two, three, or sour Times, or more, as the Patients Strength can bear it; and on the intermediate Days to give a purgative Clyster. But in young People, and those who have lived regularly, he says, that a very low Diet will cure as effectually as Bleeding and Medicines: That the Patients must live four Days on Whey alone, but after this may eat Bread for Dinner; and on the last Days for Supper also; and when the Symptoms begin to abate, he allows them to eat boiled Chicken, or other light Food; but says they must live every third Day on Whey, till their Strength returns. Process. Integr. de Rheitmatisme.
- (b) A Remark of Dr. Huxbam's deserves to be taken Notice of here: He tells us, that there are some Kinds of Rheumatisms, viz. those which come from a sharp serous Rheum, which do not bear the free Use of the Lancet; that plentiful Bleeding does more Hurt than Good; and that, in such Cases, the Medicines which bring out breathing Sweats, and at the same Time correct the Acrimony of the Blood, joined with gentle Opiates, have a much better Esset. De Acre, Vol. II. p. 185.

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We gave the faline Draughts with Nitre (c); and Plenty of Barley Water and other weak diluting Liquors; and gentle Physic once or twice a Week; and afterwards applied Blifters, which often relieved both the Pains and

After some Days, if the Pains still remained, we continued the faline Draughts with Nitre throughout the Day; and in the Evening en-

(c) Dr. Brocklesby, in his Observations on military Diseases, recommends the Use of large Quantities of Nitre dissolved in Water Gruel, or Sage Tea, (in the Proportion of two Drachms of the Nitre to a Quart of the Liquor) in acute Rheumatisms. He says, " I am affured from numberless Instances, that in " flout young Men, by taking fix hundred Grains (ten Drachms) et daily, for four or five Days successively, and diluting plenet tifully, as before recommended, plain Nitre proves the most es powerful and best Sudorisic, in such Complaints, that I have e ever tried; and this Quantity, and even more, may be reet tained in the Stomach, and pass through the Course of the At Circulation, by only diluting properly with those thin atte-" nuating Beverages as before recommended. Such Quanti-" ties, in three or four Days, feldom failed wonderfully to re-44 lieve the Patient, and very often to cure him entirely, by the " most plentiful and profuse Sweats." See from p. 116, to p. 124-

I have never hitherto given Nitre in such large Quantities as here recommended by Dr. Brocklefby. TYPE

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deavoured to promote a free Perspiration by Means of the mild Diaphoretics, fuch as the mindereri Draughts with Mithridate, in Dofes frequently repeated; at the same Time, the Patient kept in Bed, and drank freely of mild diluting Liquors. Sometimes we gave twenty, thirty, or forty Drops of Spirits of Hartthorn, in repeated Draughts of warm Barley Water; or a like Quantity of the Antimonial Wine, used in the same Manner; or from fixty to a hundred Drops of the Antimonial Wine, mixed with one-fourth Part of the tinctura thebaica, in a large Draught of some warm Liquor; which I have observed, in many Cases, to have a better Effect, than most other Medicines used for this Purpose; as it acts both as an Opiate in eafing the Pain, and procuring Reft; at the same Time that it promotes a free Perspiration, or gentle Sweat, to carry off the Diftemper.

But it should be observed, that, in the Beginning of Rheumatic Fevers, forced Sweats generally did Hurt, and often increased both the Pain and Fever; and that in general we

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had greater Success, and made speedier Cures, when we did not attempt to promote Sweating, till after other Evacuations had been fufficiently made, and the Fever had begun to abate; and that in this Fever, when we did attempt to procure Sweats, the milder Diaphoretics, with Plenty of weak diluting Liquors, answered better than those of a more heating Nature; though after the Fever was gone, and the Pains still continued, sometimes the stronger Sudorifics, such as G. Guaiac, and its volatile Tincture, Dover's Powder, and the like, best answered the Purpose, and carried off the Distemper, when the milder ones had little Effect.

I have often observed, where Sweating made no Change in the Distemper, that keeping up a free Perspiration by Means of the Decoction of the Sarsaparilla with the Antimonial Wine, or small Doses of the pulvis antimonialis (gr. v.), given twice or thrice a Day, removed Rheumatisms, which had resisted the Force of other Remedies. water the applicated gared and fuer late Best Dissession on a did Dissession best

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Sometimes the cold Bath (c) removed Pains which had not yielded to internal Medicines; but it ought to be observed, that when Patients went into the cold Bath while the Feverishness still remained, and the Blood continued fizy, or before free Evacuations had been made, oftentimes, instead of giving Relies, it made the Disorder worse, and more obstinate (d).

When the Rheumatism was confined to a particular Part, attended with Fever, we treated it as the acute Rheumatism. Fomenting the Part With warm emollient Decoctions, and

(r) I have frequently ordered the warm Bath with Advantage in Rheumatic Cases in St. George's Hospital; but we had no Convenience of this Kind with the slying Hospital in Garmany.

(d) This I have feen many Instances of, particularly in the Case of Ann Walker, a Woman of twenty-three Years of Age, who was under my Care in St. George's Hospital, in May, 1759. Before she came to the Hospital, she had been blooded, and had gone into the cold Bath four Times, which, she told me, had increased her Pains to a violent Degree; in which State she had continued for some Weeks before she came to the Hospital; but by being blooded, and taking the cooling saline Medicines, with gentle Purges, and mild Diaphoretics, she got well in a Month's Time.

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rubbing it afterwards with the volatiles or faponaceous Liniments, often gave Bafe and the Application of Cupping Glaffes and Bliffers frequently removed the Diforder. In fome Cases, where the first Blister did not relieve. the Application of a fecond, and afterwards keeping up a Discharge from the Part by Means of the Epifpastic Ointment, carried off the Pain. In others, where the mild Diaphoretics were ineffectual, Sweating, with the G. Guaiac, or Dover's Powder, and fuch other Medicines, after the Fever was gone, removed the Complaints (e). () I said fingerally ordered the water it at with Activition

(e) Warm Water, pumped upon the Part, often removes fuch rheumatic Pains as have refilled the Force of internal and other On the 29th of August, 1759, Mary Ward was admitted into Sr. George's Hospital for rheumatic Pains of the Arms, Legs, and Knees, attended with Fever, which all yielded to Evacuations, and the Use of cooling Medicines, mild Diaphoretics, and of the warm Bath, except the Pain of the Knee; which, after it had refifted the Courle above-mentioned, was at last removed by pumping warm Water on the Part, three Times a Week; joined to the Use of Fomentations and volatile Liniments. to and assessment the same and strong the code into

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When the Rheumatism was attended with Inflammation and Swelling of the Joints, we blooded freely, gave cooling Purges, and the saline Draughts with Nitre, along with Plenty of weak diluting Liquors, and prescribed a cool low Diet.

After the Violence of the Fever and Inflammation was abated, fomenting the Parts, and rubbing them with the saponaceous or volatile Liniments, sometimes hastened the Discussion of the Swelling; as did likewise the Application of Blisters (f), after the Inflammation was entirely

(f) Ann Ragen, a Woman about thirty-three Years of Age, was admitted into St. George's Hospital the 17th of January, 1759, for rheumatic Pains of her Legs and Arms, and a Swelling of her right Knee. Free Evacuations, and the Use of cooling Medicines, and mild Diaphoretics, removed all her other Complaints, except the Swelling of the Knee, by the Middle of February, when I ordered a Blifter to be applied to it; after which the Swelling granually decreased, and she was discharged, cured, the 20th of March.—Rachael Hyde, a Woman twenty-four Years of Age, was admitted into St. George's Hospital the 9th of May, 1759, for similar Complaints, which were removed by the same Means, all except the Swelling of the Knee. A Blister was applied, and most of the Swelling went away, but returned soon after: It was at last removed by the

if volatile Liniments or Blisters are used too foon, they will sometimes occasion violent Inflammation and Pain (g).

Rheumatic Cases of this Kind are often very obstinate, and require a considerable Length of Time before they are got the better of; and frequently more or less of the Swelling, especially of the Wrists and Joints of the Fingers, remains ever after; and Patients, who have once had the Rheumatism in this violent Degree, are always subject to Relapses; as are even those who have had the Rheumatism but slightly.

Mercury (b) has been recommended in the

Use of the warm Pump three Times a Week, and drinking a

Pint of the Guaiac Decoction daily.

(g) I have sometimes ordered Leetches to be applied to such Swellings (as recommended by Dr. Pringh), and sound them to be of Service; and, at other Times. I have applied emollient Fomentations and Poultices, which have given great Ease to the Patient.—I have seen Setons or Issues, made near the Part affected, afford considerable Relief.

(b) Dr. Musgrave, in his Treatise de Arthritide Symptomat. p. 30, cap. ii. sect. 10, says, he has known a Salivation, raised by Mercury, cure the Rheumatism.

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Cure of Rheumatisms; but I never found it do any Service by itself, except in Cases complicated with venereal Symptoms; though I have often given it, and even sometimes gone so far as to raise a Salivation, where the Pains were most severe in the Night; and the Patient, at the same Time, thought he had some Reason to suspect a venereal Taint, though no external Symptom appeared. However, many good Practitioners have recommended small Doses of Calomel to be given at Nights, and next Morning a Purge; in which Way, I think, I have observed good Effects from its Use.

The Bark was frequently of Use in restoring the Strength, and removing those rheumatic Pains which remained after Fevers, and other Disorders; but, in other Cases, it had little Effect.

When the Rheu atism continues long, and has taken deep Root, Sydenbam (i) advises to bleed from Time to Time, at some Weeks Distance; which, he says, will either entirely

⁽i) Vide Sydenham. Opera, fect. vi. cap. 5.

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remove the Disease, or bring it to that Condition, that the Remains of it will be easily extirpated by an Issue; and giving some of the volatile Salts in Canary Wine, Morning and Evening. I have always observed in rheumatic Cases, which continued long, that, after free Evacuations, the Patients received more Benefit from a mild low Diet, continued for fome Time, and the Use of diluting Decoctions with mild Diaphoretics, while they took gentle Purges once or twice a Week, than from any other Remedies.

I have given Half an Ounce of Soap a Day, for a confiderable Time, in some old rheumatic Cases, in the Manner recommended by the late Dr. John Clerk of Edinburgh, as mentioned by Dr. Pringle; and, I think, with Advantage; but have not had sufficient Trials to ascertain the Merits of this Medicine.

Dr. Sydenbam, in treating of the Rheumatifm, which he calls scorbutic, says; that after it had refifted Bleeding, Purging, low Diet, and other Remedies, he has cured it by giving thrice a Day two Drachms of an Electuary sam de Siderican Canal fect. et cap.

made of conserv. cochlear. borten. recent. unc. ij. hijul. unc. i. pulv. ar. comp. drachm vi. cum syrup. aurant. q. s. drinking after it three Ounces of a Water drawn from Brunswick Beer, and some of the antiscorbutic Plants.

There is no Disorder which Soldiers are so apt to counterfeit as the Rheumatism, when ever the Duty in the Field is severe; but while there is no Fever or Size in the Blood, or other evident Marks of the Distemper, and the Men look healthy, there is always Reason to suspect Imposture.

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Autumnal Remitting Fever.

THE Remitting Autumnal Fever, called by the Antients ourexas, was also one of the most frequent Disorders during the Campaign.

This Fever is observed in most Countries, after the Juices have been highly exalted by the Heat of Summer; and People are exposed to the Heats of Mid-Day, and to the cold Damps of the Night. We observe it every Year in the Neighbourhood of London, especially among the labouring People, who work in the Fields, towards the End of Summer, and in Autumn; but it is generally in a milder Degree than in Armies, where Men are more exposed to the Vicissitudes of the Weather.

As we go further towards the South, this, as well as other bilious Diforders, becomes more frequent.

This Fever is reckoned the endemic Distemper of the West Indies, of the Coast of Guinea, and other Places in the Torrid Zone; but in those warm Countries it appears in a more violent Degree; makes a much more rapid Progres; and proves far more fatal than in our cooler and more temperate Climate. And it is observed to be always most frequent and most fatal where a Country is covered with Wood, or is marshy; and where there are frequent Fogs, and much stagnating Water, which corrupts by the Heat of Summer.

In January, February, and March 1761, we had none of those Remitting Fevers at Paderborn. In April, some sew of the Soldiers, on their Return from the Winter-Expedition into Hesse-Cassel, had Fevers attended with billious Symptoms; but they were rather of the continued, inflammatory Kind, and tending to malignant, than such as could be called remitting.

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The first Time that I saw much of this Ferver, was among the Sick sent to Bilifield in the End of June 1761; soon after the Army took the Field. The Remissions were short, and it partook much of the Nature of the common Inflammatory Fever; and most of them were cured by the antiphlogistic Method. A Day or two before we lest this Place, it began to change into the Malignant Hospital Fever, from the Sick being too much crowded.

In the Middle of July, about Twelve Hundred Sick were sent to the Hospital at Munster; and about one-third Part were ill of this Remitting Fever. It did not partake near so much of the inflammatory Nature as at Bilifield; the Remissions became much more evident; and it was attended much oftener in the Beginning with bilious Vomiting and Purging; and in some few the Disorder turned to a Dysentery. About eight or nine had it changed into the Hospital Fever, from the Wards in one of the Hospitals being too much crowded; and in some sew the Disorder terminated in regular Agues. In November severals were tarken

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ken ill of it in the Garrison of Bremen, which mostly ended in a regular Intermittent, the endemic Distemper of the Place. Towards the End of December we had none of these Remitting Pevers, the Diforders turning more to the inflammatory Kind.

In June 1762, this Fever began to appear again among the Sick, fent from the Army, to the Hospital at Natzungen; and it continued to be frequent through the Summer and Autumn; and the greatest Part of these Fevers this Year terminated in regular Agues, mostly in Tertians, and were cured by the Bark; whereas the Year before very few terminated this Way. ved Property of Manager

This Diforder in the Beginning had commonly the Appearance of a continued Fever; and many had a Sickness and Vomiting, and threw up a Quantity of yellow Bile, mixed with the Contents of the Stomach. In a few Days, especially after Bleeding, the Remissions became clear; tho' on its first Appearance in June 1761 they were short, and rather obscure; and it seemed still to partake a good deal of the leverals Assaugus

158 Of the Autumnal Remitting Fever.

Nature of the common Inflammatory Fever the Blood being very fizy; but as the Seafon advanced, the Remissions became more evident. and the Paroxysms more like those of an Ague; and the Blood less sizy, tho' at all Seasons of the Year it had some Appearance of an inflammatory Buff in this Diforder. The Sick were reftless and uneasy at Night; but commonly felt themselves cooler and lighter in the Day-Time: and although they had no cold Fit, as the Fever came on at Nights, and many of them no Breathing Sweat, as they became cooler and freer from the Fever in the Morning; yet the Fits were fo remarkable, that many of the Patients used to say they had a regular Fit of an Ague every Night, or towards the Morning; and fome few, that they had the Fit every fecond Night. As the Seafon advanced, the Remissions appeared more However, there was always a good Number in whom the Fever went on in a continued Form, through its whole Courfe, without any Signs of Remission; tho' they had all the other Symptoms of this Fever. In a few Instances

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Instances the Fever, after it came to remit, changed again into a continued Form.

The Heat in the Time of the Paroxysms rose high, and several were delirious during its Continuance (a); but were quite sensible in the Intervals, though never wholly without the Fever.

At the End of July 1761, four or five were attacked with a Bleeding at the Nose, in the Time of the Paroxysms, and became cooler afterwards; but it did not prove a Crisis in any of them.

The Urine in the Beginning was commonly of a high Colour, though fometimes it was pale and limpid: At first it deposited no Sediment; but when the Fever came to remit, there was often a small Sediment after each Paroxysm; and as the Fever was going off, it let fall a Sediment in all (b).

Some

⁽a) I did not see the Delirium rise so high, nor the Paroxysms so severe, as in the Marsh Fever described by Dr. Pringle.

⁽b) Dr. Hillary fays the Symptoms of this Fever in Barbadoss were much the same as those of the συνιχης, or continued Remit-

160 Of the Autumnal Remitting Fever.

Some at first were inclined to be costive; others had a Sickness and Purging; and several of those who were costive in the Beginning, were in the Course of the Disorder attacked with a Purging; and others, after some previous Complaint of the Stomach, were seized with both Vomiting and Purging. In general, after the Sick continued some Days in the Hospital, they were inclined to be loose; which was a favourable Circumstance, when this Evacuation was not so great as to be in Danger of sinking the Patient. Some were attacked with a Dysentery.

In this, as well as in most other Fevers, the Sick frequently passed by Stool Worms of the found Kind; and sometimes they vomited them up, or the Worms came up into their Mouth or Nostrils while they lay asseep in Bed; and some towards the Height were afflicted

ting Fever in England; except only that the Urine in this hot Climate never deposits any lateritions Sediment, nor very rarely in any intermitting or any other Fever, except when a Crisis happens that Way. Observations on the Diseases of Barbadoes, p. 23.

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of the Autumnal Remitting Fever. 161with Deafnels, which was commonly a favour-

Most of those ill of this Disorder had a yellowish Colour of the Countenance, which went off with the Fever. It was more observable in some than in others; in general, it was slight; some few became yellow all over (c); particularly one Man, in the Hospital at Munster, who, after being seized with violent Vomiting and Purging, Convulsions, and Twitchings of the Tendons, and Hiccup, became yellow, as in the deepest Jaundice. This Symptom of Yellowness arises from a Redundancy and Absorption of Bile; and is sometimes observed in other Fevers as well as this (d); for while

⁽c) Dr. Pringle takes Notice of this yellow Colour or Jaundice. He fays, "fome grow yellow, as in the Jaundice. This was "found more frequent during the first Campaign than after-"wards; it was an unfavourable, but not a mortal Symptom." Observ. part iii. ch. 4.—Hippocrates mentions the Jaundice occurring in Fevers, Apper. iv. § 62 & 64; and he reckons it a favourable Symptom in ardent Fevers, where it happens on the feverth Day. See Book on Crises's, sect. 3.

⁽d) Does this Fever, when accompanied with this universal Yellowness of the Skin, approach to the Nature of the yellow

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while we were at *Paderborn* in *February* 1761, two Men were brought to the Hospital in Fevers, attended with this Symptom. They were both delirious, with parched dry Tongues, slight

at the raide grow as well so that he said they Fever of the West Indies? As I had so few Cases of this Kind under my Care, I cannot determine any thing about it from my own Experience; but, from the Accounts of others, I should believe them to be very different Diforders. - In the yellow Fever of the Well Indies, the Blood appears quite loofe and diffolved, without the least Appearance of Size, even on the first Day; and the general Yellowness appears on the third or fourth, with Signs of a total Diffolution, and gangrenous Diathefis of the Blood: Whereas, in the Remitting Fever of 7a. maica, Mr. Nasmith tells us, (See Dr. Lind's first Paper on Fevers), there is always an inflammatory Diathefis of the Blood. The Yellowness in both depends on a Redundancy and Absorption of Bile; but in the yellow Fever of the West Indies, the Bile is in a much more putrescent State, and a great Part of the Cure depends on the early and speedy Evacuation of it .-In the yellow Fevers which appeared in Hastar Hospital, which are taken Notice of by Dr. Lind, in his Two Papers on Fevers, the Blood was in quite a different State from what it is in the Yellow Fever of the West Indies; the Blood drawn from two of these Patients became covered with a thick yellow Gluten, and the Serum was of the Confiftence of a thin Syrup, and of a deep yellow Tinge, and tafted bitter; and in another who was bled two Days before his Death, it threw up the same thick yellow Gluten, tho' the red Part below was quite loofe.

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Twitchings

Twitchings of the Tendons, and other bad Symptoms; and one of them had a continual Vomiting and Purging. They both died, and the Body of him who had the Purging was opened. All the Bowels, especially the Colon, were tinged with a yellow Bile, and had a flight Degree of Inflammation all over their Surface; the Gall-Bladder was diftended with a very dark-coloured Bile; but no Concretions were found in its Cavity, or in the bilious Ducts; nor Mucus, or any other Thing obstructing these Passages. The Surface of the Lungs feemed flightly inflamed; and there was a small Quantity of greenish Serum in the Cavities of the Thorax. I could not learn the Histories of these two Mens Disorders, before they were brought to the Hospital; but, from the Symptoms, was inclined to believe, that the Fevers had been of the malignant or petechial Kind; and that the yellow Colour was only an accidental Symptom of it; for on one of the Men we could perceive obscure Traces of dun petechial Spots on his Breast and Arms; and the malignant Fever was frequent at this

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Time

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Time among the Troops, and the bilious autumnal Fevers had ceafed long before.

I could not observe any certain critical Days, or Periods, when this Disorder terminated.—Some, who had it slightly, got well in a few Days; with others, it continued longer: Some continued long feverish, and would seem cooler and steer from Fever for a Day or two, and then grow worse again; and many had repeated Relapses.

Neither could I observe any regular Crisis in this Fever. Sweat was the Discharge which oftenest proved critical. Many seemed to be relieved by a Purging; but as the greater Part had a Looseness after some Days, which continued often through the Disorder, without producing any very sudden Change in the Symptoms, it seemed to be a favourable Circumstance; though it seldom carried off the Fever so suddenly as to be manifestly critical. The Urine broke, and dropt a Sediment, for the most part, as the Fever took a favourable Turn.

When this Fever proved mortal, it commonly affumed a continued Form; the Tongue became parched and dry, the Patient delirious, with Twitchings of the Tendons, Hiccup, and other fatal Presages; while others were seized with a violent Diarrhæa, or Dysentery, which funk them irrecoverably.

In the Beginning, it was abfolutely necessary to bleed the Patients freely; and frequently to repeat the Evacuation, where the Symptoms required it. The Blood was of a florid Colour, and commonly threw up more or less of an inflammatory Buff.

In these Fevers, we were obliged to have particular Regard to the first Passages, especially in the Beginning of the Diforder; for they were generally loaded with bilious Humours (e); which, if suffered to remain in the

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⁽e) According to Dr. Hillary's Account of the Yellow Fever in the West Indies, which is attended with bilious Vemiting, it bears bleeding once or twice, but not a third Time, before the third Day, but not at all after that Time; and after Bleeding a great Part of the Cure depends on carrying off as much of the putrid Bile as expeditiously and safely as possible,

Bowels, were either absorbed, and increased the Heat and Fever, or brought on a violent Diarrhœa; and therefore, after Bleeding, we gave a Vomit

which he fays is to be done by making the Patients drink freely of warm Water (sometimes mixed with a little simple Oxymel or Green Tea) fo as to vomit feven or eight Times; and then to give a grain, or a Grain and a half of Opium, to procure Reft, and to fettle the Stomach; to make the Patient take nothing for two Hours after; and then, if he has not had a Stool, to give a laxative Clyster; after fix Hours Rest, to give a gentle Purge, to carry off as much as possible of the bilious corrupted Humours; and in the Course of the Disorder to repeat the Purge, as often as the Patient is attacked with an Anxiety, and a painful burning Heat about the Præcordia; which almost depend on bilious corrupted Humours pent up within the Bowels; and to endeavour to support the Patient's Strength, and stop the putrescent Diathesis of the Fluids by fuitable Antiseptics, of which he found a watery Infusion of Snake Roof, mixed with Madeira Wine and Syrup of Poppies, to answer the best of any Thing he tried, and to sit easiest on the Stomach; and to this he added the Use of Cordials, and of strong Wine Whey as the Patient became lower.

Dr. Hillary's Purge was: R. Mannæ fescunc vel unc. ij. Tamarind. cond. unc. i. Tartar vitriolat. gr. x. folve in feri lactis præparat. cum Vin. Maderiens. unc vi. Colaturæ adde Tinet. Senæ unciam dimidiam. Divide in Partes quatuor, & capt. æger unam omni hora donec laxetur alvus. aid of the pure'd Bale as expeditionly and the His

a Vomit in the Evening, and next Day a Dose of some gentle Purge, as Rhubarb or Salts; to carry off these putrid, bilious Humours: And afterwards, in the Course of the Disorder, if the Patient was costive, and grew hot, restless, and uneasy, we either repeated the Purge, or gave laxative Clysters, which generally re-

His Infusion of Snake-Root was prepared in the following Manner:

R. Rad. Serpent. Virgin. drachm. ij. Croci Angl. drachmam dimidiam, infunde per horam vase clauso in aq. bull. q. s. & dein unc. vi. Colaturæ, adde aq. Menth. simp. unc. ij. Vin. Maderiensis, unc. iv. Syrup. Croci vel Syr. e Mecon. unc. i. Elix. Vitriol. acid. q. s. ad gratum saporem M. capiat æger cochlear. ij. vel iij. omni hora vel secunda quaq; hora vel sæpius pro re nata.

The Stomach is so irritable in the Beginning of this Disorder, as to reject the saline Draughts, Nitre, and such other Medicines. Nor will the Bark, which might be judged a very proper Medicine in the second Stage of the Disorder, lie upon the Stomach, but is thrown up immediately, in whatever Form it is given. However, a Gentleman who had practised long in the West Indies told me, that although the Patient could not retain it in his Stomach, yet that he had sound great Service, after the Bowels were emptied, from the Bark used freely in Clysters.

Dr. Hillary disapproves of the Use of Blisters in the advanced State of these Fevers.

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moved these Symptoms.—Frequently after the Operation of the Emetic, the Patient had some loose Stools, from the Gall Bladder's being emptied in the Strainings to vomit. Such Stools were always bilious, as were commonly those procured by purgative Medicines.

After emptying the Bowels, we gave the cooling, and mild Daphoretics, such as the faline and mindereri Draughts, joined occasionally with Nitre, or the Contrayerva Powders; while we made the Patient drink plentifully of warm diluting Liquors; which we found to answer in general better than any other Remedies: They brought the Remissions to be more evident, and the Paroxysms to be milder, at the same Time that they kept up a free Perspiration, as a Means to carry off the Distemper.

In some Cases we gave the Antimonial Powder, made of one Part of Tartar Emetic, and ten of the pulvis e chelis, in small Doses, from two to four Grains every four or six Hours. The first Doses of this Powder sometimes made the Patient sick, and acted as a Purgative, and kept

kept up a free Perspiration; at other Times, it produced no visible Effect. In some Cases, where it was given early, it operated both by Stool, and as a Diaphoretic, and removed the Fever (f); and it was of Use in others, towards the

(f) Dr. Millar, one of the Physicians to the Army, told me in Germany, that he had given this antimonial Powder with great Success in the Remitting Fever, while the Eighth Regiment of Foot (to which he was formerly Surgeon) lay in England .- Dr. Pringle, in his fourth Edition of his Observations, Part iii. ch. iv. tells us, that having given a mild Purge immediately after Bleeding, he next Morning, when there was almost always a Remission, gave a Grain of the Tartar Emetic, with twelve Grains of Crabs-Eyes, and repeated the Dose in two Hours, if the first had little or no Effect; at any Rate, in four Hours. This Medicine not only vomited, but generally opened the Body, and raised a Sweat. By these Evacuations, the Fever was fometimes quite removed, but always became easier .- This Medicine he usually repeated the second or third Day; if not, he opened the Body with some mild Laxative, or a Clyster; and continued this Medicine, till the Fever went gadually off, or intermitted .- Dr. Pringle fays, that Dr. Huck treated this Fever in a Method fimilar to this, both in North America and in the West Indies. In the Beginning he let Blood; and in the first Remission, gave four or five Grains of Ipecacuana, with Half a Grain of Tartar Emetic: This Medicine he repeated in two Hours, taking Care that the Patient should not drink before the second Dose; for by that Means the Medicine

the Decline of the Fever; but we were often obliged to lay it aside; for it either acted too roughly, or produced no visible Effect or Alteration in the Disorder.

When the Fever came to remit, we were obliged, for the most part, to continue the Use of the mild Diaphoretics, as before; for, although the Disorder put on a remitting Form, the Bark had very little Effect in stopping it (g), unless

passed more readily into the Bowels, before it operated by vomiting. If, after two Hours more, the Operation either Way was small, he gave a third Dose; which commonly had a good Essect in carrying off the Bile; and then the Fever either went quite off, or intermitted so far as to admit the Bark. On the Continent he found no Difficulty after the Intermission; but in the Islands, unless he gave the Bark upon the first Intermission, though impersect, the Fever was apt to assume a continual and dangerous Form. Dr. Huck never varied this Method, but upon a stronger Indication to purge, than to vomit. In which Case he made an eight Ounce Decoction, with Half an Ounce of Tamarinds, two Ounces of Manna, and two Grains of Emetic Tartar; and dividing this into four Parts, he gave one every Hour, till the Medicine operated by Stool.

(g) Dr. Hillary, in mentioning the Remitting Fever of the Island of Barbadoes, says: In those who were blooded, and took an Emetic afterwards, and then the saline Draughts, the Fever

unless where the Fever changed into a regular Quotidian or Tertian Ague.——In the Year 1761, very few of these Fevers turned to regular Intermittents; but, in the Year 1762, the greater Part of them terminated in regular Agues, and were cured by the Bark (b).

In

Fever was generally carried quite off by a critical Sweat on the feventh or ninth Day; in some sew it came to intermit regularly after that Time; and was soon cured by the cortex Peruviana, given with the saline Draughts, and seldom effectually without them; though these irregular ingeminated Fevers often remitted, and sometimes seemed to intermit; yet if the cortex Peruviana was given too soon in the Disease, before it intermitted regularly (as I have more than once seen, where it had been injudiciously given), it generally caused the Fever to become continual and malignant. Observat. on the epidemic Diseases of Barbadoes, p. 22.

(b) Mr. Clegborn, after giving a very accurate Account of Tertian Fevers, as they appeared in their various Forms of true, of double, and tripple Tertians, and of Semi-Tertians, in the Island of Minorca, tells us, that he first attempted the Cure by profuse Evacuations; but afterwards learnt from Experience, that they were unnecessary; and that Bleeding and Purging once or twice in the Beginning, was all that was in general requisite; and if on the fifth Day the third Revolution was not attended with more threatening Symptoms than the second, and the Patient bore it easily, he frequently trusted the whole Business to Nature; which commonly terminated the Fever about

In the Year 1761, we tried the Bark in various Forms in many Cases, where the Patient had been blooded and purged in the Beginning, and used the cooling Medicines; and where the

the fourth or fifth Revolution; and for the most part with an Increase of some natural Evacuation .- But if the Paroxysm on the fifth Day was the longest and most severe that happened. attended with any doubtful or dangerous Symptom, he ordered two Scruples of the Cortex to be given every two or three Hours; so that five or fix Drachms may be taken before next Day at Noon; left, if this Interval escaped, he should not have found a favourable Opportunity of giving a fufficient Quantity of the Medicine afterwards; as the Fits about this Period are wont to become double, subintrant, or continual. -- This did not always put an immediate Stop to the Fever, but it invigorated the Powers of the Body, and prevented or removed the dangerous Symptoms. Having given the Bark on the fifth Day, if a Fit came on the fixth, and declined the same Evening, he gave some more Doses of the Bark to mitigate the Fit on the feventh; yet fometimes this Fit of the fixth united with that of the feventh, and the Patient had the Heat, Restleffness, Raving, and other Complaints, greatly augmented, and the Cafe feemed more desperate than ever; which, however, were more dangerous in Appearance than Reality, and went off with a profuse Sweat next Morning; after which he gave the Bark freely as before; and this either stopt the Fits, or made them so moderate, as that they yielded quickly to the same Sort of Management .- By this Method, when Affiftance is called timely, Mr. Clegborn fays, the most formidable Intermitting and Remitting

the Remissions were very clear: Yet it had no Effect in removing the Disorder, except in two or three Cases at Munster, where the Paroxvims affumed a tertian Form; for the most part, it made the Patients more hot and feverish, and we were obliged to leave off using it. as it was in Danger of changing the remittent into a continued Fever. However, it was of Service after the Fever came to a Crisis, and was going off; and Dr. Pringle has very justly observed, that it hastened the Recovery, and that those who used it were less subject to Relapses than such as did not; and therefore we commonly gave it in a convalescent State. Before giving the Bark, I always found it of Advantage to give a Dose of Rhubarb, or of fome other Purgative, or to mix fome Rhubarb with the first Doses, so as to procure the Patient some loofe Stools.

When either the Fever went on without Intermission, or changed into a continued

ting Tertians, may be certainly and speedily brought to a happy Conclusion about the End of the first Week, or Beginning of the fecond. See Observ. on the epidemic Diseases in Minorca, chap. ili. p. 187, &c.

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Form, or the Patient continued hot and feverish through the Day, with a Head-Ach, and other feverish Symptoms, nothing answered better, after free Evacuations had been made, than to apply a large Blister to the Back; and to make the Patient drink freely of cooling diluting Liquors; which generally relieved the Head, and abated the Violence of the other Symptoms.

When a Purging came on in the Course of this Disorder, if there was much Fever, with a strong throbbing Pulse, Gripes and Pain of the Bowels, some Blood was taken away; and immediately after the Patient took a Dose of Salts and Manna, or of Rhubarb; and an Opiate in the Evening after its Operation: But if there was little or no Fever, or sharp Pain, Bleeding was omitted; and if the Patient complained of Sickness, a few Grains of Ipecacuana were given previous to the Purge.

After this, if the Purging was moderate, and did not fink the Patient, we did nothing to stop it; but if it was violent, we gave the mindereri Draughts with Mithridate, and the Chalk Jules

Julep in the Day, and an Opiate at going to Rest; and occasionally used the emollient and anodyne Clyster; and, if necessary, repeated the Emetic and Purge.

The Hiccup feldom appeared in this Fever till the Patient was reduced very low, and was commonly the Forerunner of Death. Some few, who had a Purging and Vomiting, were taken with a Hiccup, attended with Sickness. and Load at the Stomach, which feemed to depend on bilious Humours lodged in the Stomach and Bowels. This induced me to give a few Grains of the Ipecacuana; and to make the Patients drink an Infusion of Camomile Flowers till they vomited freely, and afterwards to take fome mild Purge, or use laxative Clysters; after which they found themfelves easier, and an anodyne Draught, with twenty or twenty-five Drops of the tinetura thebaica, put an End to the Hiccup. Others required the Use of Cordial Draughts, mixed with Opiates; and repeated Clysters and Fomentations, before they found Relief. The Application of a Blifter removed the Hic-

cup in one, after the above Remedies had proved ineffectual; as did the Music Julep with Opium, and the Application of an aromatic Plaister to the Stomach, in another Patient.

Several of them complained of a burning Heat and Pain in making Water; which commonly went off by drinking freely of the Gum Arabic Decoction, with the dulcified Spirit of Nitre, and the Use of oily Draughts; though in some it required the Affistance of Opiates, and of Fomentations and Clysters, before it was got the better of.

The Symptom of Worms we were often obliged to neglect till the Fever was over, and then we treated it as formerly mentioned.

The Deafness, though not near so frequent in this as the Malignant Fever, was rather a favourable Symptom, and mostly went away of itself; though in a few Cases, where it continued long, we applied Blisters behind the Ears, or to the Neck, with Advantage.

Many, especially those who were brought low, complained, after the Crisis of the Fever, of Restlessness, and Want of Sleep, which, however, however, went off as their Strength returned: Where it fatigued them much, and kept them low, we gave a Cordial anodyne Draught at Night; and if that did not answer, commonly the Addition of a few Glasses of Wine in the Asternoon had the desired Effect.

Others, in their convalescent State, complained of such a Giddiness, and Lightness of the Head, that they could neither walk nor stand; others, of a Dimness of the Eyes. These Symptoms, for the most part, went off as the Patients gathered Strength: The Use of the Bark, with now and then a Glass of Wine, hastened the Cure; and in two or three Cases we were obliged to give a Dose or two of some gentle Physic, and to apply a Blister, before the Patient got the better of them.

As the Sick were recovering, it was common for them to complain of Pains of the Shoulders, Arms, and Legs, which also left them as they recovered their Strength; where they did not, the faline Draughts, and a low Diet, generally had a good Effect; and where it had not, we treated them as rheumatic Complaints.

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When the yellowish Colour of the Countenance remained after the Fever, we kept the Patient on a low Diet; and his Body open by Means of the saline Draughts, with a sew Grains of Rhubarb, or by giving Half a Drachm, or two Scruples of the Soap Pills with Rhubarb daily; which, for the most part, removed the Yellowness soon. Two only had a Jaundice remain after the Fever, and both were cured in a short Time.

Fever, when it degenerated into a continued Form, had nothing particular in it; nor differed from the common Practice of giving cooling Medicines when the Fever was high, and supporting Nature by the Use of Cordials and Wine, and the Application of Blisters, &c. when low; and promoting such Evacuations as Nature pointed out for a Criss.

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Intermitting Fever, or Ague.

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THIS Disorder belongs to the same Tribe of Diseases as the Remitting Fever. We call it an Intermitting Fever, or Ague, when the Paroxysms are distinct, begin with a cold and hot Fit, and go off with a Sweat; and the Patient is cool, and free from the Fever in the Intervals between the Fits.

Many have been the Causes alledged to produce this Disorder. The great Quantity of Bile that is often thrown up in the Fit, has caused it to be ranked among the bilious Discases; and the Seasons of the Year in which it is most frequent, and the low moist Situation of the Places where it is endemic, have made Practitioners suspect, that an obstructed Perspination,

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ration, and a Tendency in the Juices to the Putrefcent, are the Caufe of it.

But whatever Cause we may suppose to give Rise to the first severish Fit, it is difficult from hence to account for the regular Returns of the Paroxysms and Intermissions: For my own Part, after considering Intermittents, which observed a regular Type in the Course of a Salivation (a); their being so easily stopt by the Bark without any sensible Evacuation; their being sometimes put away by a Stimulus externally applied (b), or by a Fright, or sudden Plunge into cold Water (c); their returning

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⁽a) See Van Sweiten, Vol. II. p. 537.

⁽b) A Gentleman told me, that he was once cured of an Ague in the Country, by applying a Poultice of Garlic to his Wrists, and letting it lie on till it inflamed and blistered the Part.—I have seen Blisters cure an Ague.—In the Edinburgh Med. Esfays, Vol. II. Art. v. we have an Account of Agues being cured by the Application of Poultices of recent Erigerum (Groundsel) applied to the Stomach on the Days free from the Paroxysm, which caused strong Vomiting.

⁽e) See an Account of an Ague being cured by the Patient being pushed into a Pool of Water without any previous Notice, and being much frightened, in Majon's Account of Agues, p. 222.

of the Intermitting Fever, or Ague. 181 after flight Errors in Diet, and sometimes by the Operation of a Purge, or of Bleeding; their attacking sometimes only particular Parts, and many such Accidents in these Fevers, I must confess, that I am unable to form any Idea, either of their Origin, Seat, or Cause (d).

The Soldiers were subject to this Disorder, particularly in Spring, if they took the Field soon, and in Autumn: The Frequency of it was in a great Measure determined by the Nature of the Ground on which they were encamped, or the Situation of the Garrison or Town in which they were quartered; for the lower and moister the Camp or Garrison, and the more

(d) The common Account given of the Cause of Agues, and of the regular Return of their Paroxysms, has been: That the Ague takes its Rife from some Sort of Matter, bilious, or whatever it may be, either mixed with the Blood, or lodged in the Bowels, or in some other Part of the Body; that a great Part of this Matter is thrown out of the Body, in the Time of the Paroxysm; but that so much remains as serves by Way of a Ferment to assimilate other Particles to its own Nature; which, when collected in a certain Quantity, produce a new Fit; and, according to the Time that it takes to produce this Quantity, the Disorder assumes the Form of a Quotidian, Tertian, or Quartan Ague,

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moist the Season, the more subject an Army is to Agues; and the drier the Situation of the Camp or Garrison, and the finer and drier the Weather is, the freer they are from Disorders of this Kind.

Agues in the Hospitals; but on the Return of the Troops from the Expedition into Hesse-Casses, and during the Spring, some (though not many) were attacked with Quotidian and Tertian Agues, and but very sew with Quartans.—In July and August they were more frequent, and accompanied with more bilious Symptoms. At Bremen, during the latter End of Autumn, and throughout the Winter and Spring 1762, we had Agues of all Sorts, and many invoterate Cases; and all this Spring, and during the Summer and Autumn, the Ague was the epidemic Disorder all over West-phalia, as well as among the Troops.

In Spring 1761, what Agues we had were mostly Tertian, some Quotidian, and but two or three of the Quartan Kind. They were, for the most part, mild, and yielded to the Bark,

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In general, there is a Prejudice against bleeding in Agues, after they become regular; but
I have always observed, both in England and
in Germany, that where Patients are strong and
N 4 plethoric,

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plethoric, and the Fever in the Paroxysms rises high, or the Pulse remains quick in the Intervals, that taking away more or less Blood, and giving the antiphlogistic Medicines in the Beginning, eased the Patient, moderated the Fever, and made it fafer to give the Bark foon; and I never faw the least Inconvenience from the Practice; but, on the contrary, have feen feveral Intermittent Fevers change into continued ones from the Neglect of this Evacuation; and have feen Cases where the Bark, instead of stopping the Ague, rather increased the Fever, till the Patient was blooded, and had pursued the antiphlogistic Method for some Time; after which the Bark had its proper Effect, and put an End to the Diforder.

As foon as these Agues became regular, and the Patient was quite cool, and free from any Fever in the Intervals, we gave the Bark; which soon put a Stop to the Paroxysms, without the least bad Consequences; but, before giving the Bark, we always took Care to empty the first Passages by the Use of Emetics and Purgatives, where there was no Symptom to

forbid

forbid their Use: In Cases where the Patient was weak, and the Fits so violent as to make it necessary to stop the Ague, before we had Time to administer Emetics or Purgatives, we added so much Rhubarb to the first Doses of the Bark as procured the Patient some loose Stools, as recommended by Dr. Mead(e); which

(e) Mr. Clegborn, while at Minorca, after Evacuations, gave the Bark at the End of the third Period, as we observed before; but where the Fever had been neglected till about the third or fourth Period, or badly treated in the Beginning, and the Bowels were inflamed or overcharged with corrupted Gall, he was obliged to endeavour to palliate the most pressing Complaints, and to watch Evening, Night, and Morning for a Remission, and then immediately to fly to the Bark, as the only Remedy that could avert the Danger. If the Patient was firong, he gave Half an Ounce of the Bark, with fix Drachms of the fal catharticum amarum, divided into four equal Parts. of which the Patient took one every two Hours; the Effect of which was, that the next Fit was mitigated, and an Intermission commonly enfued, in which the Bark was repeated without the Purgative, to finish the Cure. -But where the Patient was exceffively feeble, and there was a manifest Risk of his dying in next Fit, he gave Cordials with the Bark, instead of the fal catharticum; and endeavoured to throw in fix or feven Drachms in the Space of ten or twelve Hours; he having found by Experience, that if a smaller Quantity is given, the Paroxysms come

did not prevent its stopping the Ague, at the same Time that it answered the End proposed of carrying off any putrid Humours that might be lodged in the Intestines.

In England, Vernal, Quotidian, and Tertian Agues, frequently go off after Bleeding, and taking some Emetics and Purges, and the saline Draughts, and cooling Medicines, for some Time, without the Use of the Bark; but in Germany very sew yielded to this Treatment, and we were obliged to give the Bark (f) before we could put a Stop to them.

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on earlier than usual, and make att Attempts to preserve Lise unsuccessful. See his Account of the epidemic Diseases of Minorca, cap. iii. 2d edit. p. 192.

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(f) Sometimes, when Patients are reduced low by Agues, the Stomach becomes so squeamish as to reject the Bark in every Shape it can be given; in such Cases, when the Ague cannot be stopped by other Means, it may be administered with great Advantage in Clysters, of which the following is a very remarkable Instance.—William Hadderell, a Lad seventeen Years of Age, in the End of the Year 1761, was attacked with a severe Tertian Ague, in which a Mortification came on his left Foot, and one-half of it dropt off; notwithstanding, his Ague continued to attack him every second Day, and the Sore continued

nued.

In the End of July, and Beginning of August, the aguish Cases we had at Munster continued to be of the Quotidian or Tertian Kind. The greatest Part of them began in the Form of continued Fevers, tending more to the bilious Kind than the preceding Months, and many of the Sick had bilious Vomitings in the cold Fits; and the Agues we had in Spring, and during the Campaign 1762, were of the same Nature, and required the same Treatment.

AVIA Cold the record that I the very hor America nued running on the 12th of October 1763, when he was admitted into St. George's Hospital. He was reduced extremely low; and the Sore of his Foot looked fo bad, that it was at first imagined he must lose his Leg. He was ordered some Vomits, and a Purge, and cooling Medicines, and afterwards to take the Bark freely; but his Stomach rejected it, in whatever Form it was given. Other Means were then tried to stop his Ague, but with no Effect, till the 7th of November, that I ordered two Drachms of the Powder of the Bark to be given him twice a Day in an emollient Clyster, with Half a Drachm of the tinctura thebaica, which stopt his Ague in three Days; and he had had no Return of it on the 28th of January 1764, and had recruited his Health and Strength, and the Sore of his Foot was greatly lessened. Dr. Harvey (who teaches Midwifery in London) told me, that he has cured Children of Agues by Bark Clysters, after the Bark Waistcoats, and other Means used, had proved unsuccessful.

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Those Cases, which began in the Form of continued Fevers, were treated as such till they began to have regular Intermissions; they then yielded to the Bark.

Some were attended with the Dyfentery; and the Purging and Gripes were most fevere on the Days of the aguish Paroxysms. In such Cases. we were frequently obliged at first to neglect the Ague, and to treat the Diforder entirely as a Flux. Where there was much Fever, the Patient strong, and the Pains in the Bowels acute, we ordered Bleeding; and after it a gentle Emetic, and fome Doses of the faline oily Purge, or of Rhubarb; and gentle Opiates in the Evening, and other Medicines proper in the Dylentery, till its Violence was abated, before we gave the Bark : though in fome Cases, where the aguish Paroxysms were very severe, and helped to increase the Purging, and the Patient was in Danger of finking, we gave the Bark, notwithstanding the Flux still continued; and the Method we followed was the fame as that I formerly mentioned, where it was complicated with the Malignant Fever; which

Of the Intermitting Fever, or Ague. 189 which was to give the Bark, mixed with Diaf-cord, and Opiates, or other Medicines proper for the Dysentery, in the Intervals between the Purges.

By this Treatment, very often both the Flux and Ague went off. However, it ought to be observed, that unless the aguish Paroxysms were fevere, and in Danger of finking the Patient, or that the Disorder had continued for fome Time, and the Paroxysms were distinct, we feldom gave the Bark till the Violence of the Flux was abated: And where-ever much Griping and Pain in the Bowels attended the Flux and Ague, there Bleeding as well as Purgatives were necessary, before exhibiting the Bark; which feldom or ever agreed with them, till there was an evident Apurexia, or Absence of Fever in the Intervals between the Fits. Where these Cautions were neglected, the Bark generally made the Patients worfe; and we were obliged to omit it, till the Violence of the Purging was over.

Some Agues were accompanied with the Jaundice, though not in such a high Degree as

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in the confirmed State of that Diforder and commonly in the Beginning the Pulse continued rather quick, in the Intervals between the Paroxyims; and the Patients complained of fome Degree of Sickness for the first two or three Days. With those the Bark always difagreed, till the Feverishness between the aguish Paroxysms was gone; and we found, that the best Method of treating them, was to bleed in the Beginning, if there was much Fever; and then to give a Vomit and Purge, and to repeat them, if necessary; and where there was no Purging, to give the faline Draughts, and other cooling Medicines; and to add a few Grains of Rhubarb, or to give so much of the pilulæ saponacæ cum rheo, daily, as procured one or two loofe Stools.

After the Ague had regular Intermissions, and the Patient was quite cool, and without Fever in the Intervals, if the Disorder did not yield to the above Treatment, which it seldom did, we then gave the Bark freely; even though the slight icteric Symptoms still remained; and it put an End to the Ague, and removed

removed the Jaundice at the same Time, without the leaft Inconvenience to the Patient. In fuch Cases, we generally used to add a few Grains of Rhubarb to the first Doses of the Bark; or gave the Bark made up into Pills with Soap, and added occasionally a few Grains of Rhubarb.

Several of those who had the icteric Symptoms along with the Ague, had bilious Vomitings in the Time of the cold Fit; they found themselves fick, with a bitter Taste in their Mouth, before the Approach of the aguish Paroxyfm; and many of them, though they took Emetics, which operated freely at this Time, yet did not vomit up the Bile; but the Sickness and bitter Taste continued till the cold Fit came on, when they vomited Bile in large Quantities. In fuch Cases, after the Use of Emetics and Purges, and the Ague was brought to have regular Paroxysms, with free Intermissions, the Bark, given as just now mentioned, removed the Ague and icteric Symptoms, without the least bad Conferemainded a said a put assured to the stoppener

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Many Practitioners of great Repute have been prejudiced against the Bark ; and tell us, that the free Use of this Medicine often lays the Foundation of Obstructions in the abdominal Viscera, especially when it has been given where there was an ideritious Colour in the Eyes and Countenance; and that, in fuch Cases, we ought not to give the Bark till these Icteric Symptoms are gone. At first, I was very cautious of giving it under such Circumstances; till meeting with some Cases where the Paroxysms were severe, and became more frequent, while the Patient was fo low, as to be in Danger of finking under the Diforder, I gave the Bark freely, as the only Remedy capable of preserving Life; which not only stopt the Ague, but carried off the icteritious Symptoms (g), and restored the Patients to perfect Health. A to ugar systi of the After

drong the Burk, given as full now

⁽g) This agrees with what Mr. Cleghorn remarks of Tertian Fevers in his Observations on the spedemic Diseases of the Island of Minorca, who fays, " where there is an icteritious Colour of the Eyes, we are likewise told, that the Cortex should not be administred; though, in my Opinion, it is for the most part "dangerous

After this I gave it freely, in the Manner above mentioned, to fome Hundreds, with great Success; and I never faw any Mischief follow from using it: Indeed sometimes, where it was given rather too foon, it did not fit eafy on the Stomach, and made the Patients hot and reftles; but, by laying it slide, these Effects immediately ceased; and generally, after a little Time, the Paroxyfms became milder and more diffinct, when the Bark was again administered, agreed with the Stomach, and put an End to the Differder , and I am now convinced, from Experience, that the Cafes in which the Bark has done Mischief, or given Rise to Obstructions of the abdomenal Vifcera, are but very rare and that these Mischiefs mostly arise from the Obstinacy of the Disorder, and not from the Use of this Drug; for I have oftener observed these Obstructions where fittle or no Bark had been used, than where it was given freely (b). What probably has given Sign of the william as weight the barbarad sharefulle former

[&]quot;dangerous to delay it, after the first Appearance of that"
"Symptom." Chap. iii. 2d edit. p. 205.

⁽b) Dr. Pringle takes Notice, that these Obstructions hap-

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Rise to the Belief of the Bark's doing so much Mischief, is, that in Holland, and other low fenny Countries, where Agues are endemic, they are oftentimes extremely obstinate, and yield hardly to any Remedies; and if they are stopt by the Bark, they often return soon after, and by their long Continuance give Rise to Obstructions of the abdomenal viscera, which have been attributed to the Use of this Specific.

In some sew Cases a Purging accompanied these icteric Symptoms, which we treated much in the same Manner as when the Ague was complicated with the Flux; we gave Emetics and Purgatives; and the minderer Draughts with Mithridate, throughout the Day, and Opiates at Night, if the Purging was violent; if it continued, accompanied with regular aguish Fits, the Bark, with Astringents, generally removed both.

pened as often without as with the Bark; and therefore seemed to depend on the long Continuance and Obstinacy of the Intermittent. Observ. partiii. chap. iv. seet. z. p. 179. 3d Edit.

In the latter Part of the Year 1761, and during Spring 1762, we had at Bremen many Patients in Agues of all Sorts; as Quotidians, Tertians, Quartans, and irregular Agues of a very oblinate Nature. The Town of Bremen is large and well built, fituated in a low landy Plain, with the Weser dividing the old from the new Town; generally a confiderable Part of the Environs is covered with Water in the Winter, and frequently the Weser breaks down some of the Dikes, and overflows all the Country round; and every Time the River overflows its Banks, the Cellars of all the new Town, and of that Part of the old Town next the River, are filled with Water. All the Year round, on digging two or three Feet deep into the Ground, you come at Water. our stody and a sale and and

Agues are endemic in this Place, and great Numbers of the lower Class of People are afflicted with them at all Times of the Year, especially in Spring and Autumn.

Some of the Sick fent down from the Army were bad of Agues; but the greatest Number

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we had in Hospitals was composed of such as took it in Town; either from doing Duty on the Ramparts, or from lying in bad Quarters, or getting drunk and exposing themselves to Wet and Cold; and many Men of the invalid Companies who had come from Embden brought with them old inveterate tertian and quartan Agues.

Most of the recent Cases were easily cured by the Methods already mentioned; though they often continued longer, required a greater Quantity of the Bark to stop them, and a longer Continuance of its Use to make a Cure, than at other Places, which were more dry, and higher situated.

The most obstinate of the recent Cases were the irregular Intermittents, which had regular Paroxysms, but where the Pulse was not settled in the Intervals; which we were obliged to treat as Remitting Fevers till the Paroxysms became quite distinct, and the Patient was cool and free from any Fever in the Intervals; after which they commonly yielded to the Bark.

But many of those Agues which had continued for some Time, especially with those Invalids who came from Embden, or who had brought on frequent Relapses by their own Irregularities, were very obstinate. With many the Bark had no Effect; and its Use perfifted in feeming rather to exasperate the Paroxysms, and to do Hurt. Nor had almost any Remedy we tried a better Effect. We gave the following Medicines to divers Patients; the faline Draughts and cooling Medicines; Infufions of Camomile Flowers and of other Bitters; Dr. Morton's Powders of Camomile Flowers, Salt of Wormwood, and diaphoretic Antimony; Dr. Mead's Powders of Camomile Flowers, Salt of Wormwood, Myrrh, and Alum; Alum and Nutmeg; large Doses of fal ammoniac; large Quantities of Spirits of Hartshorn; the antimonial Drops and Powders; to fome we gave Emetics, both in the Intervals and immediately before the Fits. In some we tried to promote Sweats before the Approach of the Fits, by making them drink freely of warm Liquors while they

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they kept in Bed, and took diaphoretic Medicines; and to others we applied Blisters.—But all did not put a Stop to some of those Agues.

With some the Disorder continued till it broke down the Crasis of the Blood, and brought on a general Relaxation of the Fibres; and the Patients became cachectic, and fell into Dropfies, or were feized with Diarrheas, of which they died. Some had Obstructions formed in the Liver or Spleen, or other viscera, and fell into the Jaundice and Dropfies, which carried them off In the Bodies, of several whom we opened, we found Indurations of the Liver and Spleen In two of them Suppurations of the Liver-and in one, who had had the Ague at Embden, and had long complained of one of those Swellings towards the left Side of the abdomen, called the Ague Cake (i), the Spleen was fo much enlarged as to weigh above four Pounds.

⁽i) I have feen the dead Bodies of four People opened, who had those Swellings of the left Side, commonly called the Agua Cake, which had come after Agues; and in all the Swelling was owing to an Enlargement of the Spleen.

Some, whose Constitutions were worn out by these obstinate Agues, sell into Consumptions and other pulmonic Disorders in the Winter, of which they died. One Man died in the cold Fit (k).

Where-ever the Ague continued long, and the Bark had no Effect, we were obliged to lay it aside, and to try other Remedies adapted to the present Circumstances of the Patient.

The mild Methods succeeded best; giving the faline Draughts and gentle cooling Medicines to such as were strong and plethoric, and had the aguish Paroxysms violent; and the gentle Aromatics and Bitters, or Challybeats, to those of a weakly Habit, or whose Fibres had been much relaxed, and their Con-

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⁽¹⁾ The cold Fit is the most dangerous Time of the Paroxysm, and the greatest Part of those who die of Agues die at this Time; one or two Instances of which I saw in the Military Hospital at Edinburgh in the Year 1746.—Van Swieten says he has seen the trembling and shaking so great in the Time of the cold Fit of Quartans, that the Teeth have dropt out of the Head. Comment. in sea. 749. Aphorism. Beerbaav. vol. II. p. 511.

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fritutions greatly injured by this of any other preceding Diforder and value of the recommendation

During these Courses, we gave at Times gentle Emetics; and if the Patient complained of Gripes and Purging, which they frequently did, in the Course of this Disorder, we gave a Dose of Rhubarb, or of some other mild Purge; and after it other Medicines proper for this Complaint.

By these Methods frequently the aguish Parroxysms became gradually milder, and at last vanished. At other Times, after they had continued for five or six Weeks, we again gave the Bark, and found it to have the proper Effect. With others they continued through the Winter, and went off of themselves in the Spring. With others they still continued; and as no Medicines nor Time seemed to have any Effect in that Country, we recommended their being sent over to England for Change of Air, as the only Means likely to remove the Disorder.

Two Agues which had refisted the Use of the Bark were cured by Powder of Camomile-Flowers,

Flowers, Salt of Wormwood, and diaphoretic Antimony; and one by the Use of the aluminous Powders, with Myrrh. One Invalid. who had long been ill of an obstinate Tertian, on catching Cold, was feized with an Inflammation of his Throat, for which he was blooded, and took a mild Purge; next Day there appeared a Swelling of one of the parotid Glands, which we endeavoured to bring to Maturation, by the Application of emollient Cataplasms; after some Days it went entirely away, without coming to Suppuration; but as there remained still a Confusion of the Head, and a Quickness of the Pulse, a large Blifter was applied to the Back, which continued running for fome Days; after it dried up he fell into a Fit resembling that of an Epilepfy, and next Day had another Fit of the fame kind; from the Time the Swelling first appeared till the Time he had the first Fit, he had no Ague, but it returned the fecond Day after the fecond epileptic Fit; another Blifter was applied, and he had no Return of the epileptic Fits, though his Ague continued obsti-

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nate till March, at which Time he was fent to England (i).—About the same Time the aguish Fits of two others were stopt by the Application of Blisters, though they returned in both soon after.

Medicines effectual in stopping those Agues, which had resisted the Bark when properly given, though we tried a vast Variety in different Cases. The cortex cascarillae, or eleutheriae, was given freely, both in Decoction and Substance, in four Cases, which had not yielded to the Bark, but without producing any good Effect; we had not an Opportunity

⁽¹⁾ On the 20th of August 1759, a Man (Murdoch Brinnen) about thirty Years of Age, was admitted into St. George's Hospital for a very large Swelling of the parotid Glands and neighbouring Parts, which had come three Days before, after a Fit of the Tertian Ague, which did not return afterwards. The Swelling was discussed by the Application of emollient Cataplasms, which were intended to have brought it to Suppuration. He had no Return of the Ague, nor did any had Confequence follow the Discussion of the Tumour, and the Cuse was completed by a few Doses of Physic, and a Decoction of the Bark, which restored him to his Strength, and carried off the little Heat and Feverishness which remained,

Of the Intermitting Fever, or Ague, 203

of trying this Bark in more Cases of this kind, nor in Fluxes, the small Quantity of it which had come from England being all expended.

A Soldier of one of the Regiments of Guards, who was admitted into the Hospital for cedematous Legs, and the Remains of a very bad Flux, which he had had ever fince the preceding Autumn; after being cured of the Flux, and most of the cedematous Swellings, was feized with an intermitting Complaint in February. He had no regular hot and cold Fits: but every second Day, after a flight Shivering and Cold, he was feized with Gripes and a Purging. In one or two of the Fits his Pulse was very quick, and the Pain of the Bowels very acute and fevere; which obliged us to blood him, and give him a Dose of the faline oily Purge; after which we treated the Disorder as a Flux complicated with the Ague, and gave the Bark mixed with Diascord, and gentle Opiates at Nights, and at Times gentle Purgatives; the Ague and Diarrhœa stopt very foon, and in a few Weeks he got free of all Complaints, though he still continued weak, till

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till he was fent to England, about the Begin.

ning of April.

Many, especially those whose Constitution had been shaken by this or some other Disorder, complained of flatulent Swellings of the Stomach and Bowels, which affected them either while the Ague continued, or foon after it was stopped, and were very troublesome and uneasy. For the most part, these Swellings were removed by the Use of cordial Medicines mixed with the Bark, or a Course of Bitters, and some Doses of Rhubarb given at proper Intervals. In some Cases, where they were attended with Sickness, and the Stomach feemed to be loaded, a Vomit gave Relief. Very often these Symptoms continued for Weeks after the Ague had left them, and did not go entirely off, till the Patient recovered his Strength. Surelquiside in Strength.

In February, March, and April, 1761, severals of the Soldiers in the Hospital at Paderborn complained of periodical Head-Achs, which returned in most, every Day; in others, only every second; and afterwards Cases of this this Kind occurred at different Times as long as the Army continued in Germany. These Head-Achs generally began in the Forenoon, were very violent while they lasted, and confined the Patient to his Bed for some Hours. During the Pain, the Pulse was quick; but in the Intervals the Patients were quite cool, and without Fever. Sometimes, the not always, the Urine deposited a little Sediment as the Head-Ach was going off. Commonly the Pain was all over the Head, but most severe in the Forehead; though sometimes it was confined to one Side only.

These Head-Achs we treated entirely as Agues of the same Type. When the Patient was strong, some Blood was taken away, and afterwards we prescribed an Emetic and Purge, and then gave the Bark liberally, which generally put an End to the Complaint, without any bad Consequences attending.

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JAUNDICE.

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THE Jaundice, or a yellow Colour of the Eyes and Skin, occasioned by an Absorption of Bile into the Blood, was another Distemper which appeared towards the End of each Campaign.

This Disorder, for the most part, takes its Rise (a) from Calculi lodged in the biliary Ducts (b), and sometimes from a viscid Mucus

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(a) Obstructions and Scirrhi of the Liver have been affigned as the Cause of the Jaundice; but as we have so many Cases of this Kind related where no Jaundice appeared, it is now much doubted, whether such Obstructions, which do not affect the Ducts, are capable of producing this Disorder.

(b) We have numerous Cases in Bonetus, and other physical Observations, where Calculi have been found in the Gall Blad-

or Pituita obstructing those Passages (c); and it may be brought on by a Tumour, or any other Cause (d), compressing these Ducks, so as to prevent the free Flow of the Bile into the Cavity of the Intestines.

The yellow Colour, or Jaundice, observed in the Ague, and some other bilious Disorders, seems to arise sometimes from Spasms of the Ducts; or from too great a Quantity of Bile secreted and absorbed into the Blood, which seems evidently to be the Case where large

der, and Ducts of People who have died of the Jaundice; and I have frequently found two, three, and formetimes twelve, fiteen, or twenty, such bilious Calculi in these Cavities.

(c) Viscid Mucus or Pituita, or viscid Bile, has been observed frequently to obstruct the Ducts. Dr. Coe says, sometimes interior Patients discharge very thick Bile, almost as viscid
as Bird-Lime. See his Treatise on biliary Concretions, thap, ii.
where he has collected a great Number of interior Cases, in
which the Bile has been found quite viscid after Death.

(d) See the Case of a Jaundice in Bonesus's Sepulchretum Anatomicum, tom. II. p. 326, where the Sides of the common biliary Duct were compressed by an Enlargement of the Glands about the vena postarum; and we sometimes meet with a Jaundice in pregnant Women which goes off after Delivery, and seems to have been caused by the Pressure of the Uterus and indurated Fæces in the Colon. Van Sweiten says, he has seen this very frequently, vol. III. seet. 918, p. 95.

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Quantities of Bile are either vomited or difcharged by Stool; a Proof that the biliary Ducks are clear, and free from Obstructions.

In the End of the Campaign of 1760, after a continued Rain for many Weeks, the Jaundice had been very frequent, and in a Manner epidemical, among the Troops, for fome Time before they left the Field; and in passing thro' Munfler, about the End of December, I observed several ill of that Distemper in Hospitals, and met with a few Cases of this Kind in the Hofpitals at Poderborn in January 1761; but during the Spring and Summer, we had only one or two now and then fent to the Hospitals for this Complaint; though towards the End of the Campaign it became more frequent, and several were fent down to Bremen; and some of the Garrison were likewise affected with it. During the Winter not above four or five were fent to the Hospitals I attended, and but a few to the flying Hospital, during the Campaign 1762. It frequently appeared in dropfical Cales, depending on obstructed Viscera. Codipiainis, Jeiore the

Those in whom the Janndice was the original Diferder, and not complicated with any other, generally got well from, but where it appeared in dropfical Cases, depending on obstructed Viscera, it was commonly fatal.

In the Beginning of this Discase, Patients usually complained of Sickness, Heat, Thirst, and other severish Symptoms; and some bad a Vomiting, and Pain of the Stomach, for a Day or two before the Jaundice appeared; the Urine was always of a deep Colour from the first; and about the second or third Day the Skin, and the Whites of the Eyes, began to be tinged with a yellow Colour, attended with the common Symptoms of this Disorder.

Such was the Manner in which the Jaundice began in those who were taken ill in Garrison; but those sent us from the Army, could seldom give any accurate Account of their own Cases.

In the Course of this Disorder, the Sick were inclined to be costive, though some few had a Diarrheea; several, who had been reduced by Fevers, or other Complaints, before the P Jaundice

Jaundice appeared, were attacked with violent Hæmorrhages from the Nose; and two had like to have died of them before the Bleeding was stopped. The Hæmorrhages did not prove critical, but seemed to depend on a dissolved State of the Blood.

On the Patient's being first taken ill, if he was plethoric or feverish, or complained of Pain, attended with Sickness and Vomiting, some Blood was taken away. Next Day we gave twenty-five or thirty Grains of Rhubarb in a saline Draught, and afterwards the common saline and other cooling Medicines, till the Fever was abated. If the Pain and Fever did not abate, a Vein was opened a second Time, and a sew Drops of the tinttura thebuica were added to the saline Draughts, while emollient Clysters were frequently administered, and the Stomach and Belly somented with Flannels dipped in warm emollient Decoctions.

When the Pain and Fever were gone, we then gave a gentle Vomit in the Evening, and next Day a Dose of Rhubarb; and afterwards to much of the pilula Saponaceae cam rheo daily as kept the Body open; or the faline Draughts with five or fix Grains of Rhubarb in each, or fuch a Quantity as answered the same Purpose as the Pills; and from Time to Time repeated the Emetic (e) and Purge. nom Hoose mites totane Linden and Month in

antennation solidans as accept (e) Vomite are reckoned amongst the most efficacious Remedies in this Diforder, and I have often feen good Effects follow their Use .- Janet Crags, a Woman thirty Years of Age, was, on the 21st of December 1758, admitted into St. George's Hofpital for a Jaundice of some Months Continuance. Her Eyes and Skin were not of the common icteric Colour, but of a dark livid yellow, for which Reason both she and the Nurses termed her Disorder the Black Jaundice. She at first complained of a Difficulty of Breathing, and a Weight and Oppression about the Region of the Liver, for which the was blooded, took some Doses of Physick, and the Soap Pills with Rhubarb; but these produced no Change in her Complaints. On the 29th she had a Cough, and complained much of Sickness and Difficulty of Breathing, for which she was ordered a Vomit, and afterwards. to take the Squill Draught Morning and Evening, which occafioned a Purging and Gripes. On the 5th of January 1759, the Loofeness still continuing, I ordered her to leave off the Use of the Squill Draughts, and to take only some Rhubarb in an oily Draught every Night at Bed-Time. On the 8th, tho' the Purging had increased, I did not chuse to check it, as I sufpeded it would prove a Crisis to the Disorder, and therefore only ordered her the Cordial Draughts and Wine to Support

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Most of the ifteric Cases we had, which were not complicated with other Disorders, yielded to the above Treatment in about twelve or sourteen Days. Two or three remained obstinate for a longer Time. To one I ordered a Quart of the pectoral Decoction, made with Partly Roots instead of the Linseed, to be drunk daily along with the Soap Pills; and the Jaundice disappeared in about eight or ten Days. One who had the Disease more obstinate than the rest, and complained for some Time of a Tension and Uncasiness about the Liver, was

her Strength. The Looseness continued till the 15th, when most of the icteric Symptoms were gone, and by the 30th they entirely disappeared. However, she continued low, and subject to Flatulencies for some Months afterwards, which were at last removed by the continued Use of Cordials, gentle Bitters, a nourishing Diet, and repeated Doses of Rhubarb; and on the 2d of May she was discharged in a firm State of Health.

Dr. Coe says, "I have more Reason to be satisfied of the Effect of Vomits in dislodging these Calculi, than of any other, or indeed of all other Medicines." Treatise on biliary Concretions, chap. ii. p. 253. Besides viscid Humours, which Vomits bring away from the biliary Passages, how often are Gall Stones likewise found in the Stools after the Operation of a Vomit? Ibid. p. 256.

ordered

ordered to have the right Side fomented Morning and Evening, and to rub it for some Time after with the *linimentum saponaceum*, and to drink the Decoction of Sarsaparilla after the Soap Pills; and by continuing this Course for about three Weeks, the Disorder went off (f).

(f) Sometimes the warm Bath has a good Effect after other Remedies have afforded no Relief. In the Year 1743, a young Gentleman, a Student of Physic at Edinburgh, had a Jaundice for which he had taken Variety of Medicines, and rode daily on Horleback for fome Weeks, without receiving any Benefit: At last, by my Father's Advice, he took a brisk Dose of Phyfic, and before it began to operate had a large Quantity of warm Whey thrown up by way of a Clyster, and went immedistely into the warm Bath. In the Bath he was taken with a violent Inclination to go to Stool; and after coming out, had a great Number of bilious Stools that Day, and next Morning was still inclined to be loose; and in a few Days all the icteric Symptoms vanished. On the 20th of July 1763, a middle aged Woman, Elizabeth Hofier, was admitted into St. George's Hofpital for a Jaundice, which came about a Fortnight before. She had been blooded, and had taken some Medicines, before I saw her. I ordered her a Vomit and Purge, and to take too Scruples of the Soap Pills and Rhubarb daily; and four Days afterwards the Vomit and Purge were repeated, but without making any Change in her Diforder. On the 29th the went into the warm Bath, and took a Vomit immediately on coming out. -After

The Hæmorrhage from the Nose commonly Ropped soon. Where it was violent, we kept

After the Vomit she had some loose Stools, and the icteric Symptoms went all off in a few Days. She continued well for some Months; but I have been told, that she has since relapsed.

When the Jaundice continues obstinate, there is hardly any Thing has often a better Effect than the continued Use of Decoctions of the Juices of succulent Plants, of Whey in the Spring, Soap, and fuch like Medicines. The Baron Van Sweiten tells us, that he has cured many obstinate Jaundices by making the Patients drink daily a Pint or two Pints of a Decoction of Grass. Dandelion, Fumaria, Succory, and fuch like, prepared in Whey; to each Pint of which he added Half an Ounce of fall polycbreft, and an Ounce or two of Syrup of the five aperient Roots; and by ordering them to drink the Spa Water in Summer, and take freely of Soap, along with a Decoction of the aperient Roots, in Winter. In those who were cured by these Remedies, he fays, Stones, or a kind of a grumous calculous Matter, were always found in the Stools, as the Jaundice was going off. He relates one very particular Case of a Lady of fixty Years of Age, who had had a black Jaundice for twelve Years, and was cured by continuing the Use of these Medicines for eighteen Months; during the last fix Months of which the had a Loofeness, and constantly discharged by Stool a fetid granulated Matter of the Colour of Clay ;-and another Singular Case of a Man who was cured by living mostly upon Grass, and a Decoction of it, for two Years together, Man came at last to devour such Quantities of it, and could diffinthe Patient cool, and applied Cloths dipped in Vinegar and Water to the Nose.—In two Cases, one at Munster, the other at Bremen, the Patients were hot and severish, and a Vein was opened, and eight or ten Ounces of Blood taken away; and in one Case nothing took Effect till we gave repeated Doses of the tinctura saturnina in a common acid Julep.

diffinguish the good Sort from the bad so well, that the Farmers often used to drive him out of their Fields. Vol. III. \$2050.

Gliffon tells us, that Cattle are subject to bilious Concretions in Winter, which are dissolved and evacuated in the Spring, when they begin to move much about, and to eat the new Grass, which purges them. Oper. vol. II. Anat. Heper. chap. vii. p. 104.

Dr. Ruffel greatly recommends the Use of Sea Water along with the saponaceous Medicines. See his Treatife on the Use of Sea Water.

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TUMOURS of the BREAST.

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the training the second and the flow N. May 1761, a great many of the Patients, who had been in Holpitals the preceding Winter, had Tumours formed on the external Part of the Breaft, which they thewood me at Ofnabruck. They began in the Form of indolent Tumours, and came flowly to Suppuration, For the most part, the Suppuration was only partial, and the Tumour, on being opened, discharged a very small Quantity of Matter. Some of them, though they felt foft, and feemed to contain Matter, yet, upon being opened, discharged only a small Quantity of black Blood. None of them melted down entirely into Pus, or came fully to Suppuration, and healed kindly as Abscesses which succeed remained acute

acute Inflammations. But after a small Quantity of Matter was discharged, for the most part, there still remained a hard Tumour, which fele as if it was a Swelling of the Bone, or Cartilage below; and in some the Surface of the Bone was found rough at the Bottom of the the William of all examining the Rose Roll

These Tumours feldom rose high, and were most of them fituated at the lower Part of the Sternum, on a little to one Side of it, commonly on the left Side, above the carrilago enfiformis. Some Patients had only one, others two. and some three such Tumours. The first of them I faw was on the left Side, which, on being felt, gave exactly the fame Senfation as when the Cartilages of the Sternum are begun to be raifed by an Aneurism of the Aorta; only no Pulsation was to be perceived; and most of them had the fame Appearance.

The Patients, who had fuch Tumours, commonly complained of Pains of their Breaft. One or two, after these Tumours came to Suppuration, feemed to recover their Health, and to feel no Uncafines, the' fome of the Swelling remained:

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remained: But many of them were inclined to be hectic, and feemed likely to grow confumptive.

Being ordered up to the flying Hospital in June, and the Sick going down to Bremen, I had no Opportunity of seeing the Event of these Tumours, or of examining the Bodies of those who died with them. One I accidentally met with the following Winter at Bremen, who died of a Consumption and Diarrhoea. He had a large Absocs, which penetrated into the Cavity of the Chest, and discharged a great Quantity of very setid Matter, at the Part where one of these Tumours had been seated, and the Sternum and Ribs were carious all round the Abscess.

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PARALYTIC COMPLAINTS.

Some of the Soldiers, from lying out in the Nights on the wet Ground, and from doing Duty in cold rainy Weather, were feized with a Pain and Numbness all over, and lost the Use of their Limbs, which in some was succeeded with a Palsy of these Parts: But the greatest Number of those afflicted with Paralytic Symptoms were seized with them either in Fevers, or after severish and other Disorders. The Number, who were attacked with Complaints of this Kind, were but sew.

When Men were suddenly taken with Pain and Numbness all over, we found that the best Method of treating them was to put them to Bed, and give them Plenty of mild warm diluting

220 Of PARALYTYC COMPLAINTS.

luting Liquors for Drink; and if there was much of a Fever, to open a Vein, to give the cooling antiphlogistic Medicines, and apply Blisters; and if these Complaints still remained, to endeavour to promote a breathing Sweat, by means of Diaphoretics and warm Drinks. Several who were brought to the Hospital, soon after being seized in this Manner, got well; but in some few, one or other of the Limbs would begin to waste, and remain paralytic afterwards.

These who had the true confirmed Pally seldom remained long enough with us to be cured. Two or three received Benefit from Blisters applied to the Parts, and from Issues; drinking at the same time the Decoction of the Woods, or of Sarsaparilla, and taking the volatile Tincture of Guaiac or Valerian (a), and

⁽a) On Wednesday the 1st of February 1764, Margaret Julion, a Woman between fifty and fixty Years of Age, was admitted into St. George's Holpital for an entire Loss of Speech, which seemed to depend on a paralytic Disorder of the Parts about the Larynx. The Account her Friends who came with her to the Hospital gave of her Case was, that she had been for

Of PARALYTIC COMPLAINTS 221

and being sweated by the Use of Doner's Powder, or other Diaphoretics.

One Man of the gift Regiment of Foot, after doing Duty in very cold wet Weather, in the Beginning of the Year 1762, was feized with a Palfy of one Side of his Face, which

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According to French Who Came with

for five Months troubled at Times with Pains of her Bowels, and a Purging; that on Sunday se'night before coming to the Hospital, she had suddenly lost the Use of her Speech, and had not spoke fince that Time, though she seemed to hear and understand whatever was faid to her. I asked her some Queflions, which the answered distinctly by Signs. She had no paralytic Complaint of her Pace, Arms, Lege, or any other Part of her Body, and fwallowed both Fluids and Solids with Fase. She had no Fever, and seemed to complain of nothing but the Lofs of Speech .- A Blifter was applied to her Neck. and she was ordered the faline Draughts, with a Scruple of Powder of Valerian in each, to be taken three Times a day, and a Dose of sacred Tincture, to be taken twice a-Week. She followed this Course for a Fortnight, when another Blister was applied to the Fore-part of the Neck, and the Powder of Valerian in the Draughts was changed for two Drachms of the tindura valeriana volatilis. At the End of three Weeks the could pronounce the two Words Wby, What. She continued the same Course till this Day, the 16th of March, and can now pronounce many Words and short Sentences.

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222 Of PARALYTIC COMPLIANTS

prevented him from speaking distinctly, and was an Impediment to his eating. He mended ed much after being blooded, and having a large Blister to his Neck, kept open for some time by means of the epispastic Ointment.

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INCONTINENCY of URINE.

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A N. Incontinency of Urine was another Complaint frequent among the Soldiers; but it feemed to me to be counterfeited by many. All, who had it, faid that they had received fome Hurt (a) or Sprain of the Back,

TO MA TO THE CARE OF THE CARE OF SECTION AND ASSESSED.

(a) A Soldier in the Hospital at Paderborn used to discharge his Water involuntarily, and mixed with Pus, which came from some violent Blows he had received on the Back.

and the thing of such a wing the ban har

John Pearce, a young Man about eighteen Years of Age, was admitted into St. George's Hospital, the 10th of April 1759, for a Pain of his Side, and a Complaint of the Bladder. The Account which he gave of his own Case was, that, some Months before, he had received a violent Blow with a Cricket-Bat on the left Side, on the Region of the Kidney; and that ever fince he had had a sharp Pain in that Part, and sometimes had a Stoppage of Urine, and at other Times it came away insensibly.

or a Kick from a Horse, or that a Carriage had run over them. wat me dant hevisces aved

slout so required a confiderable

ime to get the better us, a infenfibly. His Pulse was rather quick, but low, and he had a feverish Heat. He at first took some cooling Medicines i but on the 20th, being low and faint, he had some of the feetid Julep. On the 23d he was attacked with a sharp Fain in the Belly and Side, had a Stoppage in making Water. a quick and full Pulse, and most of the Symptoms of the Stone. He was ordered to be blooded immediately, to take the faline Draughts every four Hours; and as be was inclined to be costive, to take as much lenitive Electuary as to procure him a loofe Stool; and it was recommended that he should be founded as foon as the Violence of the Fever was over. On the 25th he continued much in the same Way, and had made some Water, which was intolerably feetid. Half a Drachm of the dulcified Spirit of Nitre, and five Drops of the tinstura thebaica, were added to each of his Draughts, as the Pain and Difficulty of making Water had increased. On the 26th his Pulse rose, and became very hard and quick; the Pain in his Side, and the Dyfuria, became more violent; and about Twelve o'Clock he had a convulfive Fit, refembling that of an Epilepfy; after coming out of the Fit, as the Fever and Pain had increased, he was blooded; the Belly was fomented and embrocated, and he took the oily Draughts four Times a-Day; his Blood immediately threw up a very thick Buff. He remained pretty easy the rest of the Day; but about the same Time next Day, he had another convultive Fit, and died.

On opening his Body, we found about two or three Pints of a dark-coloured feetid Water in the Abdomen; on cutting through,

Washall Whorkally had the Diforder federed to have received fuch an Injury of the Bladder, be Midneys as required an confiderable Space of Time to get the better of , and by reason of the thort Time we had them under our Care at the flying Hospital, they feldom received shied to the os facture had no Effect, and an

through, and squeezing the right Kidney, there came out a thin purulent Matter every where from its Substance, though it appeared found; on raising and cutting through the Peritoneum, covering the left Kidney, there was a Discharge of about a Pint of black and very fætid Water, which had every where furrounded this Kidney; and there were fix mortified Spots on its Surface, as large as the End of one's Pinger, with a Depression in each about a Quarter or Half an Inch deep; most of the Substance of this Kidney seemed diseased, and it was full of Suppurations. The Bladder was contracted and thickened, and contained a rough Stone, which weighed three The rest of the viscera were found. This Stone had certainly been in the Bladder long before the young Fellow received the Blow with the Cricket-Bat; but the Injury done the Kidney had probably aggravated the Symptoms.

I do not remember ever to have feen convulfive Fits, fuch as this young Man had, in acute Diseases, except in one Case of a flow Fever, which came by taking Cold after a Salivation, and which I attended, along with Dr. Pringle. The Gentleman had three Fits exactly of the same kind as this young Man, at twenty-four Hours Distance from one another, and he died of the third.

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226 Of an Incontinency of Urine.

much Benefit. One or two thought they grew better on taking the Bark and Balfam of Peru; at the fame Time they bathed Morning and Evening the lower Part of the Abdomen and Peringum, with Flannels dipped in gentle aftringent Liquors, applied cold. Blifters applied to the os facrum had no Effect.

a rice of the string the first the string there care out a d least to military and and with the commence of The Telegraphic goods and guident with the state of of the Mary flows I Liney, Weed was a Drawinge of Lague THE ADDRESS OF THE PARTY OF W The term of the open that the present the I have a comment of the second of the second of To brother the member of mental and the management and the side sometimed or that Kidney Regular and the transfer for The harden was the blader was contraded and Constitution of the Party of the Constitution THE FER OF the Officea well found. This Storio care which property on which below he young which Sales of the second of the sec The same of the property of the same of th which some state we will be the state of the OF THE MEN THE PROPERTY OF THE PARTY OF to proceed the state of the form the second of A SHOW AND LOOK AND AND AS TO SHOW AND ASSESSMENT AND ASSESSMENT OF THE PARTY OF TH THE WILLIAM AND AND ASSESSMENT OF THE PARTY WHICH IS tions a harmon barbard on from a force of fifth by the the second description of the season on the party of the season of the s

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STOPPAGE OF URINE

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WE formerly mentioned, that in acute Diseases many complained of a Stoppage or Difficulty of making Water; and others had this Complaint from Strictures of the Urethra, or Disorders of the Bladder or Kidneys (a).

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(a) It is often very difficult to judge of the Caufe, or to be able to determine exactly the Seat of these Diforders before Death; as the following Cases will shew.

John Waden, a middle aged Man, was admitted into St. George's Hospital the 10th of April 1759, for a Swelling of the Abdomen, and a Difficulty of making Water, which he said begun about two Months before, with a violent Pain in his Back and Belly, occasioned by his being employed in making of Cyder in a very cold Cellar. He had not had a Stool for some Days; at first he took a Dose of Physic, and some of

Of a STOPPAGE of URINE. 228

Where it depended on Strictures of the Urethra, Bougies introduced into that Paffage. inches there there bearing

Someon Wave of this Papele

the faline Draughts; but in a Day or two complained that his Belly had grown to a monstrous Size, and that he had not made Water for above twenty-four Hours; on examining, we found the Bladder fo much diffended as to reach up to the Navel; and upon a Catheter's being introduced, above two Quarts of Water were drawn off, and the Swelling immediately subsided; but in the Afternoon was as large as before, the Bladder feeming to be in a paralytic State. During the Months of May and June, his Water was drawn off twice a-Day; he had his Belly fomented with emollient, aftringent, and other Decocrions, and embrocated with Liniments; was blooded once when feverish, took Cordials, the Bark, Myrth, and a Variety of Medicines, without any Effect. On the 3d of July, a flexible Catheter was introduced into the Bladder, and left there, in order that the Urine might drain away as fast as it was secreted, and the Bladder be allowed to contract, and recover its Tone. The Catheter gave him no Pain, and he thought himself much easier by the Bladder's never being too much stretched; but on taking out the Catheter some Days after, he had the same Stoppage of Water as before. On confolting with Dr. Bett and the other Physicians, it was agreed to give two Grains of the Powder of Cantharides, with three Grains of Camphor and ten of Sugar, rubbed well together in Mortar, twice a-Day; and to continue the Use of the flexible Catheter. He found no Uneafiness or Strangury from the Use of the Cantharides, and thought he passed his Water more freely, when the Catheter was taken out; but after fourteen Days,

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and worn for some Time, were of great Service. The Patients were at the fame time ordered

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Days, finding no Change for the better, and being free from any Fever, he was ordered into the cold Bath; the two first Days he found himself more lively and brisk; but the third Day was chilly and cold after coming out of it, and therefore was defired to leave it off : fome Days after he became hectic. and I observed Pus in his Water, which he said he had passed with his Urine for above three Months; after this he lanquished for near a Month, and died upon the 25th of August. -Upon examining his Body next Day, we found the thoracie Viscera in a found State, except that the Lungs adhied a little on the right Side. Both Kidneys were diseased; they were inflamed, and feemed enlarged; and on cutting them, had Tubercles difperfed every where through their Subffance, which had come to Suppuration, and contained a good deal of Matter; the lower Part of the left Kidney was mortified, and contained two or three Ounces of a black feetid Liquor. The Bladder of Urine was contracted, and its Coats greatly thickened, and the internal Coat much inflamed; and there was a Cyst full of Matter, about Half the Size of a Walnut, between the muscular and villous Coats, towards the lower Part of the right Side of the Bladder; and there were two large Cyfts; containing a fmall Quantity of Matter, though capable of containing near two Ounces each; one fituated between the westcule seminales and Rectum, the other between the reficule and Bladder, which opened into the Urethra by one common Orifice, capable of admitting a large Quill, at the Side of the daput galinaginis. The rest of the Viscera were in a found State.

Q 3

Mary

dered to live on a cool Diet, and to drink the decectum Arabicum, or an Infusion of Linfeed. \$1550D

Mary Hibbard, a Woman twenty-four Years of Age, was admitted into St. George's Hospital, the 6th June 1759, for a Complaint of her Bladder. The Account the gave of herfelf was, that, about Chrismas 1758, the had parted with some Gravel; and about fourteen Days before coming to the Hospital, the was feized with a violent Pain in her Back and Loins, attended with a Sickness and Nausea; and very soon after complained of a violent Pain in the lower Part of her Belly, and with a perpetual Inclination to make Water, though the felt a fharf Pain and Difficulty in doing it ; and that thefe Complaints fill remained. Her Pulse was quick and firong, and the was inclined to be coffive. She was immediately blooded, took the oily Draughts three Times a Day, the decollum furfuris for common Drink, and fo much lenitive Electuary as procured her a Stool next Day. As there was a firong Suspicion of her having a Stone, the was founded; but nothing at all was to be felt in the Bladder. Her Medicines eafed her Pain in making Water, but not the Pain in her Back. On the roth her Water was thick and turbid, and deposited a brown Sediment; and the Difficulty in making Water fill remained; instead of the lenitive Blectuary the was ordered the Rhubarboily Draught to be taken every Night. On the 18th, there being no Change in her Diforder, the had Draughts made of an Ounce and a Half of simple Mint Water, Half a Drachm of the dulcified Spirit of Nitre, and five Drops of the tindura thebaica, and Syrup three Times a Day; but on the 2 2d the complained, that fince the left of the oily Medicines, her Pain and Difficulty in ma-THE STATE king feed, or fuch other mild mucilaginous Liquors; and to take oily Medicines and Opiates occasionally,

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king Water had grown worse; she was therefore ordered the faline and oily Draughts alternately, and to take the Rhubarb oily Draught occasionally when costive, which removed these Complaints; and they did not return while the remained in the House; but on the 4th of July, the Day before the was to have been discharged as cured, she was attacked with a sharp Pain in her Hip and Loins, and about the or coccygis; which increased till the oth, and extended itself all along the Outfide of the right Thigh; it was most acute about the or cocygit; but on examining, nothing was to be observed externally: This Pain continued more or less all that Month, and till the End of the next, and so obstinate as not to be altered by bleeding, and the Use of Liniments, Blifters, cooling Medicines, Opiates, warm Baths, and other Remedies. On the 20th of August, a strengthening Plaister was applied to her Back, which gave immediate Relief, and the was discharged cured the 29th. She continued well till Odober, when she was attacked with a violent Fever at Hounflow, and was brought to the Hospital on the 24th of that Month, and the tenth Day of the Fever. She died the 3d of November. During the Course of the Fever, the only complained once of a Difficulty of making Water. - After Death I had her Body opened, when the only Thing particular which we could observe, was the urinary Bladder about four times the natural Size; it feemed to be flaccid, and in a State of Relaxation; the Kidneys were found, and no Signs of any Distemper could be observed about the Uterus or Rectum, or near the or coccygis. - When the was

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first

occasionally, and gentle Laxatives, to keep the Body open; which Method of Treatment generally occessionally.

first in the Hospital, I defired her always to examine her U. rine; but the never observed that the passed any Sand, Gravel, or any thing of that kind.

Thomas Jacey, an elderly Man, was admitted into St. George's Hospital the 14th of March 1759, for a Pain in his Back, and a Difficulty and Pain in making Water, which was often mixed with grumous Blood; but he had never observed any Sand or Gravel in it. His Pulse was quick and full, attended with Heat and Thirst; and he was inclined to be costive; he was at first blooded, and took a Dofe of laxative Mixture, and two Ounces of the Tincture of Roles, four Times a Day, and the decoffum malva for common Drink. At first he feemed relieved, and passed no grumous Blood for some Days; but on the 26th, as he complained much of a Pain in making Water, the Tincture of Roles was changed for the oily Draughts, and he was ordered the Rhubarb oily Draught occasionally. On the oth of April he fell suddenly into a comatofe Way, and remained fo till the 12th, when he died, notwithstanding the Use of divers Remedies.—Upon examining his Body, both Kidneys were found in a found State; the Intestines covered with slight inflammatory Spots, the Bladder of Urine quite contracted, schirrhous, and greatly thickened; and its internal Surface rough and eroded, with one or two black Spots on it, and some grumous Blood lying on its Surface. The other viccera were found.

In Ulcers of these Organs, the natural Ballams, mixed with fost Things, are often of great Service; of which the follow-

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nerally gave Relief. Where the Patients were plethoric, or complained of Pain, or the Dif-

ing Case is an Example. - William Lumley, a Boy nine Years of Age, was admitted into St. George's Hospital, the 6th of September 1759, for a Pain in the Bladder, and a Difficulty in making Water, which was always more or less mixed with Matter. At first there was a Suspicion of his having the Stone; but on founding, none was to be found. From the Symptoms, it appeared as if there was an Ulcer in the Bladder near to its Neck; the Boy had a Cough, was very low. and inclined to be coffive; at first he took three Spoonfuls of the Sperma Ceti Mixture four Times a-Day, and a Dole of Physic; but the Symptoms still remaining, on the 2d of Oc. tober he was ordered to take a Scruple of the electuarium e Spermate ceti three or four Times a Day, and to have the Gum-Arabic Decoction for his common Drink. By continuing the Use of these Things, and taking some opiate and laxative Medicines occasionally, he mended by flow Degrees, and all his Symptoms went off; and he recovered his Health and Strength. and returned Thanks for his Cure the 18th of January 1760.

The following Account of a remarkable Suppression of Urine I had in a Letter, dated the 25th of November 1757, from Mr. Pearson, one of the Surgeons to his Majesty's Military Hospitals, who then served as a Mate.

James Ruffendal, aged Twenty, of a delicate Habit, was, in the Middle of July last, seized with a violent Pain in both Kidneys, which extended along the Ureters to the Bladder, and remained in the same Situation for about three Weeks; during which Period his Urine began to decrease in Quantity, and the voiding

234 Of a STOPPAGE of URINE.

order was attended with a Fever, Bleeding was often necessary.

When

woiding of it was attended with acute Pain about the Neck of the Bladder. The Secretion then totally ftopt; he remained for upwards of five Weeks in the Hospital at Dorcbester, and made no Water; at the End of which Time I first visited him along with Mr. Adair. He complained then of a flight Pain in his Kidneys, and told us he had a tolerable Appetite, sweated little, and voided every Day four or five Liquid Stools. He was ordered Boluses of Camphor, and fal. wel, e. cerui, and every Night a Dose of tingura cantharidum; which he continued to take for a Fortnight without receiving the least Benefit. I then blooded him to the Quantity of ten Ounces, and gave him an Emetic of fix Drachms of the winum ipecacoanbe, and two Onnces of the Oxymel of Squills, which operated very well; and afterwards ordered him to take one of the following Bolofes every four Hours. R. Sapon, dur. Hispan. drachm. i. Sal. Absynth. gr. vi. Calc. Viv. gr. x. Baliam. Peruv. q. s. ut fiat Bolus. Thefe he continued to take for twelve Days. On the Morning of the 14th of October, he was suddenly seized with an acute Pain in both Kidneys, and about Noon voided upwards of Half a Pint of ftraw-coloured Urine, which let fall a clay-coloured Sediment. As he was feverish, I took away twelve Ounces of Blood, and ordered him Barley-Water with Nitre for Drink. He was easy in the Night, and made upwards of two Pints of Urine, which deposited a Sediment of a gelatinous Confiftence. Next Morning the Pain increased, especially in his Right Side, and ten Ounces more of Blood was taken away: This lowered the Pulse, and confiderably abated A\$6976

When the Stoppage of Urine seemed to arise from an Inflammation of the Kinneys or Bladder, or other Diseases of these Parts, we

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abated the Pain. Both this and the Blood taken away the Day before threw up an inflammatery Buff. He was ordered to continue the Use of the Barley Water with Nitre, and to take three Spoonfuls of a Mixture with Spiritus mindereri every two Hours. He had an easy Night, and was next Day free from Fever; but complained of an Uneafacts in his Stomach and Napfea. He was ordered a Scruple of the Powder of Inecacoanha, which vomited him, and procured him a Stool. He was easy in the Night; but in the Morning was hot, and complained of a Pain in his Right Kidney, and all over his Bones, as he expressed it. I then gave him a Mixture, with Spiritus mindereri, and the pulvis contrayerva comp. of which I defired him to take some Spoonfuls frequently. This procured him a plentiful Sweat, which removed the Fever and Pain: thefe Symptoms returned next Day, but were removed by the same Means. I remained at Dorchester for a Week after, and he recovered his Strength and Appetite as much as could be expected in fo thort a Time; but he still complained of Pain in his Right Kidney, tho' he made Water freely. By a Letter I received from the Gentleman whose Care I left him under, I ununderstood he had a Relapse, which he has since got the better of.

I forgot to inform you, that his Father died of the same Complaints, after being six Months without secreting a Drop of Urine; and his Brother died of the same in about ten Weeks.

treated

treated it accordingly; and where the Fever was confiderable, we made Evacuations, and gave plenty of diluting Liquors, and the cooling faline Medicines, and afterwards those of the fost, mucilaginous, and oily Nature, and mild Diuretics and Opiates.

When the Diforder, in its Progress, became chronical, the Sick were commonly sent down to the fixed Hospital, so that we had no Opportunity of examining the Bodies of such as might die of this Complaint.

pursed of a Wilder Right Kilney, and all over Mil Bones, sowe exhectly soft from a Militaria, with income of a wind from a militaria, with income of a wind in the second come of the procupal him in this bulk to be a wind the procupal him a philips of the removed of a Tetar and Take: these a which will be a wind Take and Take: these a which this come a wind Take and Take these and Take the fine

covered his Strength and Attorney as week after, and his excovered his Strength and Attorney as most as could be expreded in 10 thores Those to but he fill conspersed of the in

period in to more I am ; out he had compensed of fain in this Hight Kedney, sid he made Werer tably. Be E Links I received from the Centles as to be conferred to the ender, I un-

indication he had a Relayie, which as have got the ber-

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(b) William Wilfer, a Koy fourteen Ye rs of Age, was mitted line S. Com TeH E TO W and lastin File, which he had pean lubjett to for some I fore, and which

E P I L E P S Y en when t ordered hind to take eight that of the fille fe-

continues and Houselly, and Paylor avide a West Cara

Second to the his his his to the being to before he being to the HE Epilepfy, or Falling Sickness, attacked a Number of Men, from the fevere Duty of long Marches in hot Weather, and afterwards lying out on the cold Ground. exposed to the Damps of the Night (a).

It was very feldom that Men were cured of this Disorder in the military Hospitals. We had some few Instances, indeed, where Relief feemed to be obtained by Rest, a regular

(a) I faw above twenty Men, while I was in Germany, who attributed the Epileptic Fits they were attacked with to thefe Causes, and said they had never had the Epilepsy before; befides others, who had been formerly fubject to these Fits, who declared, that the Diforder was brought back by the fame fire was reversit, means.

forme

Diet, gentle Evacuations, and Issues (b); but even those Men generally relapsed as soon as they

(b) William Wilson, a Boy fourteen Years of Age, was admitted into St. George's Holpind, Sept. 20, 1758, for Epileptic Fits, which he had been subject to for some Time, and which generally seized him three or four Times a Week. He took Variety of Medicines without any Effect till the 6th of November, when I ordered him to take eight Grains of the pilula faction Morning and Evening, and Physic twice a Week, and a Seton to be made in his Neck. After the Seton began to run, he had but three or four sight Fits in November, and none the following Month; and he was discharged the Hospital the 3d of January 1759, seemingly in good Health, with Directions to keep the Seton running at least for some Months after he went home, and to come again to the Hospital if he should have any Return of his Fits; but we never heard more of him.

Mary Hacker, a Girl of nineteen Years of Age, was admitted into Sr. George's Hospital the rath of February 1759, for Fits. The Account she gave of her Case, was, that about sive Years before she was seized with the first Fit, after a Fright; three Years afterwards she had a second Fit, and for some Time after had a Fit commonly once a Month, about the Time of the full Moon; and since had them more frequently; that the Fits began with a Trembling and Shaking of the right Foot, and she had frequent pricking Pains in the right Thigh, and what she called convulsive Tremors in the right Leg and Foot. She was regular in her menstrual Discharge. At the Time she came into the Hospital, she was feverish, and complained much of a sharp Pain in the right Thigh; She was blooded, and took some

they were fent to their Regiments, and began to do Duty. All who had these Fits after being some Time with their Regiments, were at last discharged, and sent home. However, before Men are discharged for Fits, they should be watched very narrowly for some Time; for there is no Disorder which Soldiers are more apt to counterfeit than this.

It is no Wonder that Soldiers, during the Time of Service, should seldom be cured of these Fits; for in Adults it is not often cured

some cooling Medicine, and had no Fit till the 9th of March: She then took the fetid Pills and camphorated Julep twice a Day; but still the Fits returned frequently. She then had the Bark, Valerian and Purging Dofes fuccessively, and used the warm Bath; but without any Effect. On the 7th of May & Bliffer was applied to her right Foot, which was intended to be kept open; but an Inflammation coming on that Leg and Foot, it was suffered to dry up, and an lifue made in the fame Leg. From the Time the Bliffer was applied, the had no Fit while the remained in the Hospital. She was discharged the 15th of July, feemingly in good Health; though during that Period the had some little Tremors in her Foot, and was subject to be low and faintish, which was always relieved by cordial anodyne Medicines. After going out of the Hospital, the remained in good Health for feven or eight Months, when I was told her Disease had returned as violent as ever.

even in private Practice, with all the Conveniencies and Advantages to be wished for, and generally the few that do get well, require a confiderable Length of Time to accomplish the Core; and we find from daily Experience, as well as from examining the Records of Medicine, that the Cures that have been made, have mostly been performed either by a Change of Air, such as going from a cold to a hot Climate (c), by some remarkable Change of Life (d), or forme accidental Diforcine, and had no fee the dee on Mr Berek

ome cooling Medicine, an

(c) Hippocrates lays the chief Stress of the Cure upon Change of Air, Aphor. 4, 5, fect. ii. The Baron Pan Sweiten fays, he has known a great Number cured by going to the East Indies; many of whom have remained well ever after, while others had a Return of the Diforder when they came back to Holland. Comment. vol. III. p. 436, feet., 1080.

(d) Gelfus has long ago observed, that the Appearance of the Menses in Girls, and of Puberty in Boys, often removes this Diforder, lib. iii. cap. xxiii. On the zzd of November 1758, Mary Evans, a Girl of eighteen Years of Age, was admitted into St. George's Hospital for Fits. She had never had the Menfirua; but, for above two Years, found regularly, once a Month, a Fulnels in her Breafts, and had a flight Head Ach, and other Symptoms which generally precede this Discharge; and were succeeded with violent Epileptic Fits, which continuden (e); or by Issues or Drains (f); or by the Removal of some acrid or irritating Substance,

Street have in general had bee their st welled returning frequently for two or three Days, and then went off; and she had no more Symptoms of them, till about the fame Time next Month. She was ordered to take ten Grains of the pilula fatida Morning and Evening, and a Dose of Phyfic twice a Week; and as I found that the became plethoric near the Time her Fits used to return, I began to imagine; that both the Fits and Stoppage of the Menstrua were owing to too great a Pullness of the Vessels, which prevented the Heart and vascular System from having such free Play, as to drive the Blood through the extreme uterine Vessels: I therefore ordered feven Ounces of Blood to be taken away from her immediately. In three Days Time the menstrual Discharge began to make its Appearance; and on the 10th of January she was discharged the Hospital, seemingly in good Health, after the menstrual Discharge had returned for two regular Periods, without any Appearance of Epileptic Fits. She was defired to come back to the Hospital, if the Fits returned; but I never heard more of her.

(e) William Glen, a Patient in the Royal Infirmary at Edinburgh in September 1747, was freed from Epileptic Fits, which used to return ten or twelve Times a Day, for a Quarter of a Year, by a Diarrhoea coming on; but they afterwards returned.

"A Man subject to the Epilepsy was cured of it by a Quartan Ague, and had afterwards no Return of the Disorder. Miscell, Curios. Dec. 3. Ann. 3. p. 34.

(f) There are numerous Inflances of the good Effects of lifnes and Drains in diverse Authors. Tulpius, Van Sweiren,

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or fuch like (g); or by preventing the Cause (b); and that those Medicines called Specifics have in general had but little Share in the Cure.

(g) La Motte gives one Instance of a Person being cured of the Epilepsy by voiding five Stones, Chirurg. vol. II. p. 20; and of another who died of the Fits from a triangular Stone remaining in the Kidneys, ibid. p. 416. Dr. Short cured a Woman of an Epilepsy of twelve Years standing, by extirpating a cartilagenous Substance, about the Bigness of a large Pea, seated on the gastronemei Muscles, above a Nerve which he cut

afunder. Edin. Medic. Effays, vol. IV. Art. 27.

(b) Galen, tells us, of his having prevented the Epileptic Fits in a Boy, who used to have one whenever he was hungry, by making him carry Bread in his Pocket, and eat a little as soon as he found the least Symptoms of Hunger. De Loc. Affect. lib. v. cap. vi.——And Van Sweiten mentions how he cured a Boy, who had a Fit every full Moon; whose under Lip used to fall a Trembling before it began (a Symptom which, he says, often precedes Vomiting); by giving a Vomit every Month, for six Months successively, three Days before the full Moon, and an Opiate in the Evening after its Operation; and by putting him under a Course of strengthening Medicines. It was observeable, that if he vomited in the Time of the Paroxytm, it was soon at an End. See his Comment. vol. III. p. 439. sect.

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SMALL-POX.

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o water the state of the contract of the HE Small-Pox appeared at Paderborn Latin the Spring 1767, and five had the distinct Kind, who recovered. Six or seven had them at Ofnabruck in May and June, and one Man and a Child died of the confluent Kind: Four had the distinct Kind at Munster in July and August, who all did well. During the Winter, we had fixteen in the Hospital I attended at Bremen; ten had the distinct Kind, and all recovered, five had the confluent Kind, of whom two died; as did also one who was brought to the Hospital with all the Symptoms of the most malignant Kind. Two were sent to Natzungen in July, both ill of the confluent Kind; the one died two Hours after his Arrival; R 2

val; the other recovered; And we had only two in the Hospital at Ofnabruck in Winter 1762-63, and both did well.

There was nothing particular either in the Course or Treatment of this Disorder, different from what we meet with in daily Practice; only as the Soldiers, who were attacked with it, were strong, and in full Health, they required Bleeding and gentle Evacuations, and a cooling Regimen, on the first Appearance of the Symptoms.

The malignant Kind required the Use of Acids, and the Bark; which last, could often only be administered by Way of Clyster, as the Sick could not swallow it: In there, we treated the Patients much in the same Way as in the malignant Fever, Allowance only being made for the present Circumstances.

Luckily this Diforder never spread much in the Army, while I was in Germany.

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ERISTPILATOUS SWELLINGS.

twolned after Som bing of the Evrepal londs, and is

tenching himsteni a flim had Appearage of N January 1762, several Patients in the Hospitals I had the Care of at Bremen, had thining watery Swellings of the Face, or Extremities; which came fuddenly, and were attended with a slight Degree of Inflammation, and watery Blifters rifing above the Skin, and some Degree of Fever. The Blisters were not small, round, and angry, as in St. Antony's Fire; but larger, and of an irregular Figure, resembling those raised when People are scalded The Swellings did not pit by boiling Water. on being preffed, as the eodematous Swellings commonly do: They gave Pain when preffed, but the Inflammation was not in that high Degree as it is in the common Phlegmon:

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246 Of ERISYPILATOUS SWELLINGS.

The Blood was fizy, and the Water of a high Colour. The Diforder feemed to be a Species of the Erifypelas.

Between the 9th and 12th of January, three Patients were seized with such Swellings.

The first was a Dragoon, who had just recovered from a Flux, and a bad Cough. On the oth, he was suddenly seized in the Night with a large Swelling of his Face, Hands, and Arms, which had a shining oedemetous Appearance, with a small Degree of Redness, and was painful when preffed; and he had two or three watery Blifters rose on the Back of each Hand above the Division of the Fingers, attended with a quick full Pulfe, a feverish Heat and Thirst, a Cough, and somewhat of a Difficulty of Breathing, and high-coloured Water; and he was inclined to be costive. He was immediately blooded, had a faline Mixture with Contrayerva and Nitre, and was ordered to take a Purge in the Morning. Next Day the Blood had thrown up an inflammatory Buff, the Fever was abated, and the Breathing eafier; but the Cough and Swelling still remained.

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Parts of the Saline and Sperma Ceti Mixtures, which eased the Cough. The fourth Day the Pulse was soft, and the Swellings still in the same Situation, and the Breathing a little affected. A large Blister was applied to his Back, which discharged plentifully, relieved the Breathing, and lessened the Swellings considerably. The Cough and some Degree of Swelling still remained; but were removed by the Use of the Sperma Ceti Mixture with Oxymel, gentle Opiates, and some Doses of Physic.

The second was a Man of the Twentieth Regiment of Foot, who had been some Months in the Hospital for a hectic Complaint; he was taken ill, the same Night as the Dragoon, with a Swelling of his whole Face, particularly the Lips, which had a shining watery Appearance, and a slight Degree of Redness, attended with a strong Fever; and was cured by Bleeding, Purging, the Use of the saline Medicines, and the Application of a Blister.

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248 Of ERISVPILATOUS SWELLINGS.

The third was an Invalid, who had been admitted for a pleuritic Complaint, which he had got the better of. He was attacked, the fecond Night after the other two, with a shineing, watery, reddish Swelling, of his right Hand and Arm, up as far as the Joint of the Shoulder; four large watery Bladders likewife appeared on the fore Part of his Arm, above the Joint of the Elbow. Bleeding, with the cooling Medicines, and two Dofes of Salts, carried off the Fever, and lessened the Swelling, in about feven Days Time; but a little of it, with a Stiffness, still remained; which at last was removed by the Use of aromatic Fomentations, rubbing with the linimentum faponaceum, and taking two Doses of Physic.

Within less than a Fortnight, five or fix more were seized with Swellings of the same Kind on some of the Extremities, and all got well by nearly the same Treatment; excepting one Man, who was in a very low State, and had a large deep Ulcer on his Hip, where there had been a Mortification from his lying on that Part in a Fever. The Swelling at first

feemed

feemed to give Way but on the third or fourth Day, whaving got a fevere Cough, the Swelling increased, and the Inflammation began to look livid, and the Discharge from the Sore to look bad, and, notwithstanding various Means were used, a Mortification of the Part came on, and he died the feventh Day.

appeared contine force I set as his Acres above tipe Joint of the Linoye a Bleeding, with the cooling the decision area Delegate balls articles of the control of the Swelling. होत्तरिष्या कारिएसिक ले सह पोर्वा व सिक्ट वर्ष अ tak is along a politic technical problem of the Massifer Mississing Assistance Monden cations, as the S. w. siveneed in Johnaor beautiful to produce the production of the control

within her than a farmght, five or fix in Me. Well elected a trac designer of the same skind on someof distantionies, each all got the property of the weeks we amend the weeks and and relief of Chinois was the cuber अभिने मान पूर्व के मान कार्य का भी के प्रश्वना प्रवेश प्रकार

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THE true Scurvy, attended with spungy fetid Gums of a livid Colour, with livid Blotches, and Ulcers of the Legs, and other Symptoms, began to shew itself at Bremen in January 1762; tho' we had not the least Appearance of this Disorder in the Hospitals at any other Place, while I was with the Troops in Germany.

A great Variety of Disorders have been called by the Name of Scurvy: and the Disease has been divided into hot and cold; into the Acid, the Alcaline; and the Muriatic, according to the different Fancies of Authors, and the Causes they imagined it took its Rise from; but, from later and more acurate Observations, Dr. Lind has

has juffly temarked, that the true Scurvy has been found to be the fame in all the different Parts of the Globe, and to take its Rife from fimilar Causes; from Coid and Moisture, and living much upon falted Provisions, joined to a Want of fresh Vegetables, and of good generous fermented Liquors; and hence it is most frequent in low marshy Places in northern Climates, where there is a Scarcity of fresh Vegitables; and where the Inhabitants live much upon falted Provisions in Winter; and aboard of Ships in long Voyages or Cruizes, especially in the northern Seas and hence this Disorder was so frequent at Quebec the first Winter it was in our Possession; and in some of the other Forts in North America, which were taken so late in the Year, that the Troops had not sufficient Time to lay in a Stock of Vegetables, and of fresh Meat to be preserved by the Frost (a); but were obliged to live mostly on Ship Provifions. White the same a double of the book that the first that the same of the control of the fit

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with themer botton good oping box and the most own as

⁽a) In Quebec, and other northern Parts of North America, 28 foon as the Frost fets in, they kill their Meat intended for their Winter

It is observed, both at Sea and Land, that where the Scurvy rages, those People are least subject to it who are well cloathed; who live in dry Habitations, or lie in dry Births; who take proper Exercise, without being too much exposed to the Inclemency of the Weather; and who live well, and drink good Beer, Cyder, or Wine; as has been remarked by Dr. Pringle, Dr. Lind, and others.

At Bremen the Diforder was only observed among the Soldiers; not one of the Gentle-men belonging to the Hospital, or to the Commissation one of the military Officers, not even of the Serjeants, having the least Symptom of it. The Reason of its being frequent among the Soldiers was, that the Place is fituated on a Plain naturally very damp; and the Soldiers were quartered in very low damp Houses; at the same Time, no Vegetables or

Winter Store, and hang it up: It foon freezes, and will keep in this Manner all through the Winter. They preserve Vegetables in the same Way; and when they intend to make Use of either, they put so much as they want into cold Water for some Time, which draws the Frost out of it; and then they boil or roast it, as they think proper.

Greens

Greens were to be bought in the Market; and fresh Meat, and other fresh Provisions, were at forhigh a Price, that the Soldiers could not afford to buy them; but were obliged to live on falted Meat and falred Herrings, during the Winter so and what little Mency they had remaining, they laid out on fpirituous Liquors, which were fold cheap, mable of without

The Cure of this Diforder requires bliving in a dry comfortable Place-good Cloathinglight Food of easy Digestion, such as good Bread, Panado, Milk, Whey, Broths made of fresh Meats -white Meats, with Greens, or other Vegetable, &c .- the Ufe of Liquors of the acid or accident Kind, or the moderate Use of Beer, Cyder, good Wine, or weak Punch (6) And, by Way of Medicine, gentle Purges, mild Disphoretics; the free Use of acid or scelcent Fruits, Lemons, Oranges, Apples, Rears,

tables and Preise, and regimble Acids, produce mails berer

⁽b) The free Ufe of raw Spirits is found to be very prejudicial; but a moderate Quantity of these Spirits, diluted with Water, and acidulated with Lemons or Oranges (or with Cream of Tartar, or Tamarinds, when the former cannot be got), and made into Punch, is found to be a good Antifcorbutic. Currant Currante, Warrent Lak, Chamon, and drang

Currans, Grapes, &c. and of the antifcorbatic Plants and their Juices, as Succery, Endive, Water-Creffes, Sourvy-Grafs (c), &c. on which a great Part of the Cure principally depends; and the Use of some of the strengthening Bitaters (d), of which the Bark is not the least of ficacious.

Bleeding is feldom requifite, except where there is much Heat or Fever; or w tharp Pain

(c) Most ripe Fruits, particularly Lemons and Ortuges, and esculent Herbs, and many Kinds of Roots, such as Horse-Radish, Onions, Leeks, and many others, have been found the most useful Remedies in the Cure of the Scurvy. Decocions and Insusions of Fir-Tops, of Spruce, and of other Spries of the Pine-Tree; and Beer made of these Insusions, by fermenting them with Molasses, are approved Antiscorbutics: and when such Remedies cannot be got, Insusions of the common fitters, and weak Punch, made with Temarinds of Cream of Tartar, have proved serviceable; and where these Acids cannot be had, the Mineral Acids may be used for acidulating the Drink. However, it ought always to be remembered, that frest Vegetables and Fruits, and vegitable Acids, produce much better Esseta in the Scurvy, than any other Sorts of Remedies; and ought always to be used, when they can be got.

(d) Most of the common Bitters have been strongly recommended in this Disorder, Gentian Trifoil, Wormwood, Strate as likewise aromatic Bitters, and Aromatics; such as column aromaticus, Carvi Seeds, Winters Bark, Cinamon, and many others.

of the Side, or Difficulty of Breathing, or fome Symptom of the like Kind; it is then fome times necessary to take away some Blood. And in obtainet Cases, it is often found of Use to promote Sweats, by making the Patient, while in Bed, drink freely of warm Whey, or Sack Whey, mixed with the feorbutic Julees; or warm Barley Water, or the like, mixed with a small Quantity of the Antimonial Wine, or some other mild Diaphoretic.

And where the Patient is strong, and there is no Danger of Floemorthagies, warm aromatic Baths have fornetimes been found service able; but they are not to be used where the Patient is weak.

The first Time I saw this Disorder at Bremen, was in an old Invalid, James Long, who had come from Bristol to Embden, and from thence to Bremen. He was some Weeks in the Hospital before I discovered his Disorder to be the Scurvy. He at first complained only of great Weakness, and such a Giddiness, when he got out of Bed, that he could not walk, and of what he called flying rheumatic Pains of his Legs.

Lega. He had no other visible Complaint all which. I imagined, proceeded from Old Age, and being worn out in the Service. At last, on the 25th of January, he complained of his Gums being fore; and, on examining him, I found his Breath setid, his Gums swelled, soft, and spungy, his Legs govered with scorbutic Blotches, and other Symptoms, which evidently proved his Disorder to be the true Scurvy.

Upon which, I ordered him a low Diet, with the Addition of Greens for Dinner, and a Quart of Lemonade, with a Gill of Brandy in it, per Day, for his common Drink; and, by Way of Medicine, a Decoction of the Bark, with the Elixir of Vitriol; and, at the fame Time, ordered his Gums to be featified, where they were most swelled and spungy; and to be washed frequently with an astringent Gargle; and to be rubbed now and then with burnt Alum (e). By these Means, in a Fortnight's

⁽i) Dr. Lind, who has wrote one of the best Treatises on this Disorder, and who had a great Deal of Practice himself, says, "When

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Time, his Gums became firmer, and his fcorbutic Symptoms decreafed. During that Course he took cold, and had a Stitch in his Side, for which he was blooded. The Blood threw up a very thin Buff, which was not of a firm Confiftence (f); the Craffamentum below was of a blackiff

Blotches, test which he accessed lithe elec-

"When first the Patient complains of an Itching and a Spun"giness of the Gums, with look Teeth, either a Tincture of
"the Bark in Brandy, or aluminous Medicines, will be found
"ferviceable in putting a Stop to the Beginning Laxity of
"these Parts," When the Putrefaction increases, he recommends the Use of some of the mineral Acids. See his Treatise
on the Scurey, part ii. chap. v. p. 201.—Van Swieten says, he
never found any Phing answer better than a Gargle made of
four Ounces of Elder or Rose Water, acidulated with a Drachm
of the Spirit of Sea Salt; and where the Gums were very putrid and gangrened; he has been obliged to touch them slightly
with the pure Acid Spirit, and some Hours after to have them
washed with the Gargle just mentioned. Vide Comment vol. III,
p. 629, sect. 1763.

If the Spunginess of the Gums sprout out into a luxuriant Fungus, it is sometimes requisite to out such Funguses away, and to wash the Sores frequently with gentle astringent or acid.
Liquors.

Dr. Harbers observes, that, after the Disease has continued some Time, the Blood appears a mere Gore as it were, not separating into Serum and Crassamentum as usual, but remaining an uniform half-coagulated Mass, generally of a more livid or darker

a blackish Colour and of a loofe Texture, and the Serum in a large Proportion. By the ad of March his Gums had recovered their paturel Firmness and Texture, and the sepublic Spots and Pains of the Legs were gone, and he had recovered his Strength; the only remaining Complaint was a little Swelling about the Ankles, for which he continued the fame Courfe, and took a Dose or two of Physic. By the 16th of March all these Symptoms were gone, and he was dismissed the Hospital free from all Complaints. I faw him well the last Week in May; and he told me, he had had no scorbutic Symptom fince he left the Hospital.

darker Colour than common; though fometimes it continues long very florid ; but it always putrifies foon. See his Effay on

Fevers, chap. v.

The property of Benefits There is something very particular in the Nature of this Diforder, according to an Observation of Dr. Lind's; who fays, "That the Scurey is a Dilegie in its Nature very oppo-" fite to that of a Pever; infomuch, that even as Infection " is long refifted by a scorbutic Habit; and those of a scorbutic Habit being feized with the Fever, was a Proof of its Sti proceeding entirely from Infection." See his First Paper on From p. 4. 1 30 of the second service of sew olicon heli-conquisted histe, gentle

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bas In the Beginning of February, another of the Invalids, who had been in the Hospital for Fever and rheumatic Complaints, had Blotches appeared on his Legs, complained of great Weakness, and fainted away in attempting to walk, which made me suspect his Disorder to be the Scurvy, and, on examining him, I found his Gums fost and spongy, attended with the other Symptoms of the true Scurvy? Tout him nearly on the fame Course as in the lastmentioned Cafe . He afed a low Diet, with the Addition of Greens for Dinner, which he eat with a little Butter and Vinegar; and he had a Quart of Lemonade, with two Ounces of Brandy; for his common Drink during the Day; and, by Way of Medicine, a Decocion of the Bark, with two Drachms of the confeetio cordiaca to each Half Pint, which he took by Spoonfuls. Next Day he complained of a Pain in his Leg; and, on examining it more particularly, I found a large livid Blotch, yellow all round the Edges, on the fore Part, and a Tenfion all over that Leg. As he was so extremely low, as to be in Danger of fainting

fainting whenever he fat up, I was afraid left a Mortification (hould enfec; and therefore ordered his Leg to be bathed Morning and Evening with a warm aromatic Fomentation, and a Poultice of Theriaca to be applied after it; and defited him to take as much of the Decoction of the Bark with the Cordial as poffible; and allowed him a Glass of Mountain Wine every two or three Hours. By the Continuance of this Course for some Weeks, the livid Blotches, Pain, and Stiffness of his Leg, and most of the other fcorbutic Symptonis, went away, his Gums were reflored to their natural Firmness; and he recovered his Strength to much as to be able to fit up all Day long; though he fill remained very weak when he was fent to England, in tis serdiaca to each Half Pint, which haraM

In February and March, feven or eight more fcorbutic Patients were fent to the Hospital I attended, who were all treated in the same Manner; and all did well. About the Middle of February this Diftemper began to thew itfelf in the other Hofpital attended by Dr. Miller, the principal

who

who treated the Patients nearly in the fame Way, and they all recovered.

On the 5th of April, a young Man, belonging to the Eighth Regiment of Foot, came to the Hospital with all the Symptoms of the true Scurvy; his Gums were spungy and sætid; he had livid Blotches on his Legs, and Contractions of the Hams, and a Stiffness and Hardness in the Calves of both Legs (g). By sollowing the same Course as the others, and the Use of frequent Fomentations, and rubbing the contracted Parts with soft Liniments, he mended daily; and, after taking a Dose or two of Physic, was dismissed perfectly recovered on the 10th of May. At his first Admission into the Hospital, he was taken with a severe Cough,

(g) If the Swellings became large, stiff, and painful, Dr. Lind recommends that the Legs should be frequently bathed and somented; or, what he has sound preferable, to be exposed to their Steams, after being well covered with Blankets. After this Operation, he advises the Limb to be rubbed with some mild Oil, such as elemp palme, or Salad Oil; and if the Swellings resist both the general Cure and these Applications, the Limbs to be sweated with Spirits. See his Treatise on the Scurry, part ii. chap. v.

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attended with Pain of the Breaft, and a Spitting of Blood for a Day or two, for which he was blooded. His Blood threw up a little Buff; the Craffamentum was of a blackish Colour and of a loose Texture, with a good Proportion of a yellowish Serum. This Bleeding relieved the Complaints of his Breaft, and he had no Return of them while he remained in the Hospital.

The first Week in May four Invalids were admitted into the Hospital for this Diforder, The first had spungy Gums, a fœtid Breath, his Legs swelled and hard, and of a deep purple Colour. The fecond was a Cafe at first of a more doubtful Kind; there were no foungy Gums, though an offensive Breath; his Ancles and Feet were swelled, attended with Pain and Uncafiness, and a great Weakness and Lashtude; but no Fever, nor any livid Blotches. The Swelling of the Feet and Ancles feemed at first Sight rather gouty or rheumatic, than of the fcorbutic Kind; but from the Man's Way of Life, and the Diforder being so frequent, we discovered it to be the Scurvy. The third had honoid . a very

a wery feetid Breath and spungy Gums, livid Spots and sungous Ulcers (b) on his Legs, with Paint and Weakness all over. The fourth had also spungy Gums and a seetid Breath, Pains of the Legs and Arms, livid Blotches on his Legs, great Hardness and Contraction of the right Ham, and a livid hard Swelling on the Outside of the left Thigh, immediately above the Knee.

above-mentioned, adding a Mess of Greens to

Greek borne a frend Bresth

(b) "Ulcers on the Legs, or any other Part of the Body, " require pretty much the same Treatment, viz. very gentle "Compression, in order to keep under the Fungus, and fuch " antisceptic Applications as have been recommended for pu-" trid Gums, viz. mel rofat, acidulated with Spiritus vitrioli, " ung. Ægiptiacum, &c. but nothing will avail where the Pa-" tient cannot have Vegetables and Fruits." Dr. Lind's Treatife in Scurvy, part ii. chap. v. p. 204. And he recommends, if the Swellings and Ulcers of the Legs neither yield to the general Cure nor to the Methods here proposed, that a flow and gentle Course of Mercury should be tried, after the scorbutic Taint is a good deal removed, and the Gums are fufficiently firm; and to give along with it a Decoction of the Woods, or of Sariaparilla; but this Method ought not to be attempted till the Gums have acquired a proper Firmnels. See ibid. part ii. discovered a co be the Sarvel The third hand

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Dinner.

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Dinner, giving Lemonade for Drink, and the Bark, with Elixir of Vitriol, by Way of Medicine. The Parts that were hard and swelled, were fomented, and rubbed with soft Liniments, and Poultices were applied to the hard Swelling on the Outside of the left Thigh; and the Ulcers of the Legs dressed with Digestives, and occasionally washed with spirituous Tinctures, and touched with Escharotics. Before I left Bremen, the first Week in June, the first and second Patients were perfectly recovered, and the third and fourth almost well. All of them had had the Disorder some Months before they came to the Hospital.

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I T C H.

THERE was no Diforder fo common in the military Hospitals as the Itch. It is of an infectious Nature, and now most commonly believed to be entirely owing to little Insects lodged in the Skin, which many Authors affirm they have seen in the Pustules by the Help of a Microscope; and that the Disorder is entirely communicated by Insection, and does not arise from any Fault in the Fluids or Solids.

It has been found by Experience, that internal Medicines have little or no Effect in removing this Diforder; and that only external Remedies, which come immediately in contact with the Parts affected, are capable of making a Cure; Cure, which has been brought as a faither Proof, that the Itch is owing to Animalcules or Infects; as it is alledged, that no Remedies will cure the Diftemper, but fuch as are capable of a tharp Medicine, and renerally killing them.

The Medicines, which are most commonly used for the Cure, are Mercury, White Heleuled, as we know a m

bore, and Sulpbur.

Photo:

Mercurial Frictions on the Part are often made use of, and sometimes with Success. though they are by no Means to be depended upon for a Cure; besides that, they are liable to throw the Patients into a Salivation, as I have feen happen more than once; for which Reafons I would never recommend this Me thod where the Patient labours under no other Disorder which requires the Use of Mercury, and would confine it entirely to Cafes where Patients, having the Itch, labour, at the fame Time, under the Lues venerea, and require the free Use of mercurial Frictions; under such Circumstances the mercurial Ointment may be as well rubbed on the Parts affected with the Itch as upon any other. The come to amount inc. The

made up into an Ointment with Hogs Lard, of a strong Decoction of it in Water, rubbed on the Parts, will often cure the Itch; but it is a sharp Medicine, and generally smarts, and sometimes inflames the Parts on which it is rubbed; and therefore it is not so commonly used, as we know a much surer and milder Remedy. Though I have cured some People with the Helebore Lotion without any Inconvenience, who would not use the Sulphur on Account of its Smell.

for the Itch of any we know, and perhaps is more certain in the Cure of this Disorder than almost any other Medicine in any other Disorder whatever. We used it in Form of the Sulphur Ointment of the London Dispensatory, of which one, two, or more Drachms were rubbed in every Night, in Proportion to the Extent of the Parts affected. These Unctions were continued from four or five to ten or twelve Nights, according to the Violence and Continuance of the Disorder. Most were cured

As the sulphureous Unctions tend to obstruct the Perspiration, we generally ordered a Purge to be given before rubbing the Sulphur Ointment, and in sull Habits sometimes ordered a little Blood to be taken away; and put them all under a low Diet. After the Disorder seemed to be removed, they took another Dose or two of Physic to carry off any Impurities that might have been thrown upon the Bowels, during the Use of the Sulphur Ointment. In inveterate Cases, the Sulphur was given internally at the same Time that the Patient rubbed with the Ointment.

It is generally believed (though denied by fome) that Sulphur, taken internally, enters the Blood; and its Steams are thrown off by the perspiratory Vessels, and assists more effectually to destroy the Insects and their Ovula, which give Rise to the Itch; but whether this Effect be true or not, I found it to answer another very good Purpose; which was to keep the Belly rather loofe, while the Patient used the Unction; and by this Way it carried off those Humours,

Humours, which ought to have passed off by the Skin; and for that Reason, when it had not that Effect, we joined some Lenstive Electuary to it.

There is one Thing to be observed with regard to fulphureous Unctions, which is, that we ought not to use them too foon with People recovering out of Fevers, or other Diforders which bring them low; otherwise there will be Danger of bringing on a Relapie, which I have often observed to happen in military Hospitals; where the Itch has appeared as the Patients were recovering from Fevers and other Diforders, and the Unctions were afed too foon : But whether these Relapses were owing to the fulphereous Unction's stopping up the Pores of the Skin, and obstructing a free Perspiration, or to the Patient's being more apt to take Cold while they used the Sulphur Ointment, than at any other Time, is what I cannot determine, but to me it feems most probable, that thefe Unctions rather obstruct the Perforation; and that when they are used too foon with People recovering from Pevers, efpecially and muH

chose Particles from passing off by the Skin, which it was necessary should be evacuated, in order to free the Body from the Seeds of the Fever, or other Disorders the Patients laboured under. But however this be, Experience has shewn, that we ought not to attempt the Cure of the Itch, in Patients so circumstanced, till their Strength be in a great Measure re-established, otherwise there will be Danger of a Relapse, and likewise, that Patients using Solphur externally, ought to be particularly on their Guard against Cold.

This Observation of Peoples being so apt to relapse after Fevers by the too early Use of sulphureous Unction, is a strong Proof of the Usefulness of keeping the Body open during the Time of Rubbing and of Purging the Patient afterwards; as by these Means we may carry off by the Bowels those Particles which could not pass by the Skin; and I think, so far as I have been able to observe, those People have been less subject to relapse into Fevers where this Caution has been used, than where it has been neglected.

That Species of the Itch where it forms fmall Ulcers or Puftules in the Skin, is the worst Kind, and most contagious, and seems to take its Rife from the common Itch continuing long, and making its Way deeper into the The Cure is the same, only this requires more frequent Unctions, and those to be continued longer, than before the Diforder has taken fuch deep Root.

It is no uncommon Thing to fee the Itch appear again, some Weeks after it has seemingly been cured by the Use of sulphureous Unctions; which most commonly happened to those who were in too great a Hurry to get well, and left off the Use of the Unctions too soon. Such Returns of the Itch were generally cured by the Repetition of the same Treatment as before. Time of Landing and a Purging the

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It is no assessment Thing to fee the decine opear again, to une of the Verles after it has feeningly been cured by the Use of independent to these who were in too great a Liury to get well, and less of the Use of the Updion too soon. Such the Use of the Updion too soon. Such the Rependent of the feed were cenerally cared by the Rependent of the same transment as he under the same.

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TABLE of DIET.

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The following is a Copy of the Table of Diet which was used in the Hospital all the Time I was with the Troops in Germany:

Full Diet; Out fine liet	Breakfast. e Pint of Gruel; de with two nces of Rice, Spoonful of Flower, a e common t, and fine ar.	One Pound of Meat.	Supper. As Breakfast
Middle Diet, { As		One Pint of Broth, Half a Pound of Meat.	As above.
Low Diet, { the	above, or ording to Patient's nach or In-	One Pint of Broth; or Half a Pint of Pana- do, with two Spoonfuls of Wine, and a Quarter of an	

Ounce of fine

The daily Allowance of Bread was a Pound to those on full and middle Diet, and Half a Pound to those on low Diet, or a Pound, if so ordered by the Physician.

Those on full and middle Diet were allowed daily three Pints of Barley or Rice Water; to each Pint of which were added two Spoonfuls of Brandy, and a Quarter of an Ounce of Lump Sugar. Small Beer was mentioned in the Diet Table; but this we could never have good; and therefore was not used.

Those on low Diet were allowed Barley or Rice Water; to which some Wine or Brandy was occasionally added, if ordered so by the Physician.

Besides this, the Physician might order an additional Quantity of Wine, Brandy, or Milk, or Water Gruel, or any other Articles which he thought proper for the Sick under his Care, and which could be got easily.

As above, or a line of the an accordance according to the wife over the line of the Breakfull.

Out Diet. - the findent's Secondale of the Breakfull.

out to sport

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PHAR-

The daily Allowands of Bread was a Pound to those north and entitle Diet, and Half a Tound to their on low Det, or a Pound, if for effected by the half the second of the

PHARMACOPOEIA

-mood rest babba and abide to a day of

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die Des J auf Malif W. V. Sood of the Estate

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Nosocomii Regii Militaris

Britanici.

Beride W. at 190 and Land and the day

addition of wheel M. D. C. C. L. X. L.

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- Par Place o proc cooler popularia o regimenta poli - La secretado de la creativa de como la composición de

TATES

The daily a horomone of Benedams a Penni

to them on here are not to be four by they Pound to their to his Diet, as I Pound, it to PHARMSON

PHARMACOPOET

to such Plot of which were wided two Jopes Although the surrenant problem.

Leader Stewer . 'M U & Ur W. Stewer Stewer the Eller Table Spiel of Wa 2001 Keep live

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Education of Security INC and the boundary of the first want

- Net character to the control of the control of int teresto in my ero ciero eventadara. preparate our old countries in a recount ampe concerns and the statement attraction aduer TERRITOR !

TO HEST

PHARMACOPOEIA

IN USUM

Nosocomii Regii Militaris.

Ann. MDCCLXI.

AQUÆ SIMPLICES ET SPIRITUOSÆ.

A QU	JA Alexeteria.
1	JA Alexeteria. — Bacc. Juniperi.
.orwon	— Cinnamomi.
y , ra , byte	_ Menthæ vulgaris.
\$5.000	- Menthæ piperitidis.
1980 1880	- Nucis moschatæ.
	- Pulegii.
科 贝特的 海豚	- Rutæ.

Vel aliæ aquæ hujus generis præparari poffint, terendo in mortario vitreo elaeosacchara præparata, cum oleis essentialibus, et sacchari albi 121a quantitate; et dein addendo aquæ T 2 Fontanæ fontanæ vel spiritus vini tenuis quantitatem suf-R Argenti vivi gook exuge. (a) manaai

Aqua calcis fimp. Ph. Lond. Wingo. Dosis a lib. i. ad lib. ij. in die.

Aqua Hordeata. Ph. Lond. Utenda pro potuli 32

BOLUS.

Bolus anodynus aftringens. R Theriaca andromachi, drachm. dimid. opii, gr. i. M. pro doft femel vel bis die.

Bolus e rheo cum mercurio. R Pulv. rhei, gr. xxv. calomel, gr. v. fyrup

Bolus e calomel. R Calomel gr. v. conferv. rolar. fcrup i. M.

(a) Such Elatofatchura (as they are called), made by rubbing the effential Gils with twelve Times the Quantity of Sugar, may at all Times be prepared at the fixed Hospital, and carried about with the flying Hospital, much more conveniently than the simple or compound Waters themselves.

Bolus

ful matatima Bolus mercurialis. I lov anatro

R Argenti vivi, gr. x. extingue in balfam copaivi, q. s. et adde conserv. rosar. q. s.

Bolus e scordio cum theo.

R Elect. e scordio, scrup. i, pulv. Rhei, gr. x. fyrup, q. s. ut fiat bolus sumendus semel, bis, terve die.

COLLYRIA.

Collyrium faturninum.

R Sacchari faturni, falis ammoniaci crudi ana gr. vi. folve in aq. fontanæ, unc. xij. adde pro re nata tinct. thebaicæ, drachm. i.

Collyrium vitriolicum.

R Vitrioli albi, drachm. fs. folve in aq. fontanæ, lib. i.

Confectio cardiaca. Ph. Lond. Conserva cynosbat. Ph. Lond. Conserva rosar. Ph. Lond.

Bolus

corrected about with the flying Many of much their conven-T.4 DE-

DECOCTA.

Decoctumalbum. Ph. Lond. utendum pro potu;

Decoctum arabicum.

R Gum. aribici, unc. dimid. coque in aq. hordeatæ bullientis, lib. ij. ad folutionem Gummi. utend. pro potu.—addi possit pro re nata spirit. nitri dulcis, drachm. ij.

Dococtum corticis Peruviani.

R Cort. Peruv. crass. pulv. unc. i. coque in aq. fontan, lib. iij. ad lib. ij. Colaturæ adde tinct. cort. Peruv, unc. i. spirit vini Gallici sescunc. Dosis ab uncia i. ad unc. iv. bis ter. quaterve die.

Decoctum cort. cum ferpentaria.

Fit addendo decocto cort. Peruv. sub finem coctionis, rad. serpentariæ virgin. contus. unc. dimid. Dosis ab unc. i. ad unc. iij. ter quaterve die.

Decoct. commun. pro clyster.

R Flor. vel herb. chamamel. unc. i. coque in aq. fontan, lib. i.fs. ad lib. i. & cola.

De-

Decoctum ligni guaiaci.

R Ligni guaiaci ras. lib. ss. aq. fontanæ bullientis, cong. ij. macera per noctem; mane coque ad congium. i. & cola; Capiat a lib. ss. ad lib. ij. die.

-mul man Decoctum nitrofum.

R Coccinel. ferupul. i. coque in aq. fontan, lib. ijs. ad lib. ij. & dein adde, salis nitri, unc. i. sacchar. albi sescunc. Colaturæ addi possit pro re nata aq. alicujus spirit. unc. ij. Dosis ab unc. i. ad unc. iv. 4tis vel 6tis horis.

Decoctum pectorale.

R Fol. herb. malvæ, unc. ij. seminum lini, unc. dimid. coque in aq. fontan. lib. ivss. ad lib. iv. addendo sub sinem coctionis rad glycyrrhiz sescunc. vel mellis optimi, unc. i. Cola pro potu.—Adde pro re nata aceti, sescunc.

Decoctum rad. farfaparillæ.

R Rad. sarsaparillæ, unc. iij. coque in aq. fontan. lib. iij. ad lib. ij. adde sub finem coctionis ligni sasafras, drachm. i. rad. glycyrrhizæ, drachm.

drachm ij. Colatura capiat a lib. i. ad lib. ij. in die. Adde pro re nata viņi antimonialis, drachm, ij.

ELECTARIA.

(yrupe ud sect of the control of the co

Elect. aftringens balfamicum.

R Specier. e scordio, pulv. e tragacanth comp. ana unc. i. tincturæ thebaicæ, drachm. ij. syrup sacchari, q. s. ut siat elect. Dosis ad molem N. M. bis, ter. quaterve in die.

Elect: corticis Peruviani.

R Pulv. cort. Peruv. unc. iv. fyrup facchari, q. s. Dofis a scrup. i. ad drachm. unam, bis, ter, 4^r. 6^{ties}. vel decies die.

Elect. corticis anodynum.

R Elect. cort. Peruv. unc. 1 nam. elect. e scordio unciam dimidiam, vel tinct. thebaica scrup. ij.

Elect. corticis astringens.

R Elect. cort. Peruv. semunc. pulv. rad. tormentil, lapidis cancror. ppt. singulorum, drachm. i. syrup, q. s.

Elect.

i dil Blect. cort. cum ferpentaria. midante

P. Elect. cort. Peruv. unc. i. pulv. rad. serpentar. virgin. cort. canel. alb. ana, drachm ij. syrup. q. s.

Elect. cort. cum fale ammoniac.

R Elect. cort. Peruv. sescunciam. sal. ammon. crud. drachm. i.

Elect. e baccis lauri, Ph. Lond.

Elect. lenitivum cum fulphure.

R Elect. lenitiv. lib. is. flor. sulphuris, unc. ij. Dosis, moles, N. M. vel ad semunc. pro re nata.

Elect. lenitivum compositum.

R Elect. lenitiv. lib. i. pulv. jalap. unc. i. sal. nitri, drachm. ij. syrup. q. s. Dosis a drach. i. ad drach. iv. pro r. n.

Elect. lenitivum balsamicum.

R Elect. lenitiv. comp. unc. ij. balf. copaiv. unc. i. gum guaiac. unc. fs. M. Doss, cochleare thez, h, s. vel mane & vesperi.

Belle

Electuar.

Electuar. e scordio vel diascordium. Ph. Lond.

Elect. e spermat. ceti.

R Balfam Peruv. unc. im, misce optime cum mucilag, gum arab. sescunciam & adde spermat, ceti, conserv. rosar. ana unc. xij. syrup sacchar. q. s. doss, a dimidia drachma bis die ad drachm. im. quater vel sexties die.

Elect. ftomachicum.

R Conserv. cynosbat. unc. iv. pulv. rad. zinziber. drachm. ij. canell. alb. unc. i. rubigin. martis, drachm. ij. syrup. q. s. dosis a scrup. i. bis terve die ad semidrach. 4^{tis} horis.

Elect. e scammon. Ph. Lond.

ELIXIR.

Elix. aloes. Ph. Lond. Elix. paregoricum. Ph. Lond. Elix. vitrioli acid. Ph. Lond.

ENEMATA.

Enema commune laxativ.

R Aq. fontan. calid. unc. xij. elect. lenitiv. semunc. sal. cathartici amari, unc. i. M.

Enema commun. oleos.

R Aq. fontan, bullient, unc. x. mucilag. gum arabic. unc. im. olei olivar. unc. ij. adde pro re nata elect. e fcord. drachm. ij. vel. tinct. thebaic, drachm. i.

Enema ex amylo.

R Aq. fontan. calid. unc. iv. gelatin. amyli, unc. v. elect. e scord. drachm. i. M.

Enema terebinth. od pA A

R Terebinth commun. drachm. vi. folve in vitello ovi & adde enemat. oleos. unc. x.

Emplaftrum vesicatorium. Ph. Lond.

i mdoeth . F. vO . TV U .S. . Howard . and

R Aq hoedean wae, s. f. s. sinus vint gellici,

Fotus communis.

R Fol. malv. flor. chamamel. fingulorum, m. i. coque in aq. fontan. q. s.

TUD.

Totus

ANY Fotus commun foirit ATA TTUO

R Fotus commun. lib. ij. aceti, lib. i. spirit.

Fotus cum fale ammoniac.

R Fotus commun. lib. ij. sal ammoniac crud.

Fotus volatilis. annol pA

R Fotus commun. q. s. afperge panno statim ante applicationem spiritus sal. ammoniac, q. s.

GARGARISMATA

Gargarisma commune.

R Aq. hordeat. unc. xij. sal. nitri, drachm. i. mellis semunc. M. adde pro re nata spirit. vin. unciam i.

Gargarisma acidum Tow H

R Aq. hordeat. unc. xij. spirit. vini gallici, unc. i. aceti sescunc. tinct. myrrhae, drachm. ij. M.

Gargarifma volatile.

R Aq. hordeat. unc. xij. spirit. vin gallici unc. ij. sal. vol. ammoniaci, drachm. i. M.

GUT-

GUTTÆ ANTIMONIALES ANODYNÆ.

tructed of discount of the forming and

R Vini antimonialis, unc. im tinct. thebaic. drachm. ij. dosis a gutt. 30 ad 40 bis terve die, vel a gutt. 60 ad 140, h. s. in potu tepido.

HAUSTUS

Haustus simplex.

R Aq. fontan. sescunc. spirit. vini gallici drachm. i, s. sacchar alb. drachm. dimidiam M.—Haustus præparari possit aqua aliqua simp. et spirit. loco aq. fontan. & spirit. vini gallici pro re nata.

Haustus anodynus-

R Hauft, simp. sescunc. tinct. thebaic. gutt.

Haustus camphoratus.

R Camphore, gr. iij. tere in mortario cum facchar. alb. drach. dimid. & dein adde muci-lag. gum arabici, drachm. ij. hauft. fimp. fescunciam. M. s. a. Dosis repetenda, 4ta vel 6ta quaque hora.

Hauft.

Hauft emetic, antimonialis.

R Vini antimonialis semunciam. Dari possiti ad drachm. x. pro r. n.

Hauft, emeticus fcilliticus.

R Oxymel. fcillit. drachm. x. aq. fontan. femunc. pulv. rad. ipecacoan. gr. vi.

Haustus cardiacus.

R Haust. simp. sescunciam confect. cardiac, scrup. im. M. f. haustus repetendus 4^{tis}. vel 6^{tis}. horis—adde pro re nata sp. lavend. comp. dr. i.

Hauftus cardiacus oleofus.

R Ol. essential menth. gutt. ij. tere in mortario vitreo cum sacchar. alb. drachm. dimid & adde haust, simplicis sescunc. tinct. stomachic. drachm. i. M.—adde pro re nata tinctur. thebaic. gutt. x.

Haustus lixiviosus anodynus.

R Haust. simp. sescunciam, lixivii tartari, drachmam dimidiam tincturæ thebaicæ, gutt. xx. cap. h. s. vel mane & vesperi.

- artens wing aven or the some attribut Hauffus

wis visymolientus emithridatio. Gray

aceti vin drachm. iij. dofis repetenda 414. vel.

Haustus oleosus communis.

and the light the terms and the

R Mucilagin, gum arabici, drachm. iv. ol. olivar, drachm. v. misce s. a. & adde haust. simp. sescureiam. Repet. 4. vel 6tis. horis.

Hauftus oleofus cum rheo.

R. Haust, oleos. communis, unc. ij. tinct. rhei sescunc. vel pulv. rhei, gr. xxv. tinct, the-baic gutt. xv. M. siat haustus sumendus vel h. s. vel primo mane.

sided with Hauftes purgans. 19474 obbe

R Infus. senze, unc. iij. sal. glauber. drachen. iij. spirit. vin. gallici, drachm. ij. sacchar. alb-drachm. dimid. capiat mane.

Haustus salinus communis.

R Acetivinosi vel succ. limonum semunciam, sal. absynth, scrup. i. vel ad saturationem, haust. simp, sescunciam adde pro re nata pulv, contravery:

yerv. comp. scrup. i. vel pulv. contrayerv. cum nitro, scrup. ij.—Haustus præparari possit cum salis diuretici drachma dimid. loco acidi & salis absynthii. Dosis repetend. 3^{tis}. 4^{tiis}. vel 6^{tis}. horis — Eodem modo sit haustus cum spirit. mindereri uncia dimidia.

Hauft. salin. cum confect. cardiaca.

R Hauft. salin. commun. unc. ij. confect.
cardiac. scrup. i. M. repet. 4tis. vel 6tis. horis.

Haust. salin. cum mithridatio.

R Haust. salin. commun. unc. ij. mithridatii, scrup. i. M. sumend. 4tis. vel 6tis. horis.

Hauftus falin. cum rheo.

R Haust, salin, com, uncias ij. pulv. rhei, gr.

Hauftus falin, cum phu.

R Haust salin. commun. unc. ij. pulv. rad. valerian. sylvestris, scrup. ij. Dosis repetend. 2dis. 4tis. vel 6tis. horis.

Hauft. falinus fuccinatus.

R Hauft. salin. commun. unc. ij. sal succini, pulv.

pulv. castorei fingulorum, gr. x. H. repetend. Atis. vel 6tis, horis.

Hauft. falinus purg. oleofus.

R Mannæ opt. femunc. olei olivar. drachm. vi. vitelli ovi q. s. tere in mortario, addendo paulatim sal cathartici amari, unc. i. solutam in aq. fontan, calid, unc. iij. spirit. vini gallici vel aq. alicujus spirituosa, drachm. iij. M. s. a pro doli matutino.

Hauftus volatilis.

R Hauft, fimp. sescunciam fal. vol. c. cervi, gr. x. M. H. repet. 4ths, vel 6ths. horis.

INFUSA.

Infusum amarum. Ph. Lond. Addi possit pro re nata in præparando spirit. vini tenuis, lib. ss. ad lib. ij. infusi. Dosis ab unc. ina. bis die ad unc. ij. ter. die.

Infusium raphani rusticani.

R Rad. raphani rufticani, unc. ij. baccar. juniper, unc. inam. cort. canell. alb. drachm. ij. U 2

Mixtura

aq. fontan, bullient, lib. iv. infunde per noctem leni calore. Colaturæ adde spirit. vitti gallici unc. iv. Doss ab. unc. i. bis terve die ad unc. iv. 648. horis.

Inferent fenz commun. Ph. Lond.

JULEPUM É MOSCHO.

R Mosch. drachmam im. tere optime in mortario cum sacchar. alb. drachm. iij. & adde mucilagin. gum arab. dr. iv. Haust. simp. unc. vi. Dosis unc. ij. 4^{tis}. vel 6^{tis}. horis.

LINCTUS.

R Conferv. cynosbat. unc. iv. ol. olivar. syrup. sacchari vel mellis and unc. ij. adde pro re nata spirit. vitrioli tenuis, drachm. iv. Doss cochleare theze urgente suffi.

DINIMENTA.

Liniment. faponaceum. Ph. Lond.

Lini-

messon ser samphoratum. Linimentum camphoratum.

R Olei olivar. une. ij. camphoræ; drachm.

Linimentum volatile. Ph. Lond.

Linimentum volatile commune.

R. Olei olivar. unc. iij. spiritus salis ammoniaci, dr. vi. M.

Mixt. A cald a Bald a Advill

ni amino 5191 4 401

Mel cum borace.

R Mellis optimi, unc. i. pulv. subtilissim. boracis, dr. i. M.

Mel Ægyptiacum. Ph. Lond.

Mel rofacenm. Ph. Lond.

MITHRIDATUM. Ph. Lond.

MIXTURÆ

dipolitavit. | Didle it, unic. it ad ancelli, open

Mixtura acida communis.

R Haust. simp. une: viij. spirit. vitrioli tenuis, scrup. ij. vel ad gratam aciditatem. Dosis ab. unc. ij. ad unc. iv. 4tis. vel 6tis. horis.

U 3

Mixtura

Mixuus

Mixtura ammoniaca.

R Gum ammoriaci, drachm. i. folve in haust simp. unc. vi. Dosis ab. unc. i. ad unc. ij. bis terve in die.

Mixtura ammon. cum oxymel.

R Mixt. ammoniac, unc. vi. oxymel scillit. drachm. vi. Doss a cochlear. i. ad unc. ii. ter. 4^{rve}. die.

Mixtura ammoniac. anodyna.

R Mixt. ammoniac. cum oxymel. unc. vi. tinct. thebaic. drachm. dimid. Doss a cochlear. i. ad iv. 4tis. vel 6tis. horis.

Mixtura Campechenfis.

R Extract. ligni Campechenfis, drachm. iij. folve in haust simplic unc. vi. adde pro re nata tinct. thebaic gutt. xxx. vel Philon. Londinen. drachm. i. Dosis ab. unc. i. ad unc. iij. bis, ter, 4^{rve}. die.

Mixtura fætida.

R. G. asafætid. drachm. i. solve in haust. simp. unc. vi. Dosis ab. unc. i. ad unc. iij. 4^r. die.

Mixtura

Mixtura fætida volatilis.

R Mixt. fætid. unc. vi. spirit. volat. sal. ammon. drachm. i. Dosis ab. unc. i. ad unc. ij. bis, ter, 4rve. die.

Mixtura fracaflorii.

R Haust. simp. unc. viij. Elect. e scordio, drachm. iv. Dosis ab. unc. i. ad unc. ij. 4^{tis}, vel 6^{tis}. horis.

Similar lamy Mixtura japonica. Aught A

unc. i. adde pro re nata tinch. thebaic. dr. i.

Mixtura laxativa.

R Elect. lenitiv. unc; i. Mannæ semunc. coque in aq. fontan. unc. xvi. ad unc. xij. Colaturæ adde sal. cathartici amari. sescunciam, spirit. vini gallici, unc. i. Dosis ab. unc. ij. ad unc. xij.

Mixtura purg. antimonial.

R Elect. lenitiv. sescunc. mannæ semunc. coque in aq. sontan. unc. xx. ad unc. xvi. & dein solve tartar. emetici, gr. x. Colaturæ dofis ab. unc. i. ad unc. iv. omni hora vel omni

MIN

Kualao

2da. vel 3tia, vel 4ta, hora, donec laxetur alvus,

sing pr Mixtura oleofa volatilis,

R Hauft, simp unc. vi. ol, olivar, unc. iij, spirit. volatil. salis ammoniaci drachmam inam, M. Dosis ab. unc, i, ad unc. iij. 3 tiis, vel 4 tis. horis,

Mixtura feillitica, and is.

R Haust. simp. unc. vi. exymel scillitic, drachm. vi. Doss a drachm, iv. ad unc. ij, bis, ter, 400c. die.

Mixtura e spermat. ceti.

R Spermat. ceti, drachm. ij. folve in vitello ovi &t adde hauft. fimp. unc. vi. adde, pro re nata, tinct. thebaic. scrup. ij. Dosis ab. unc. i, ad unc. ij. 4tis, vel 6tis. horis.

Mixtura e spermat. ceti cum balsamo.

R. Balsam. copaiv. drachm. ij. tere in mortario cum mucilag, gum arabici, drachm. iij. & dein adde mixtur. e spermat. ceti, unc. vi. Dofis ab. unc. i, ad unc. iij. 4^{tis}. vel 6^{tis}. horis.

MU-

MUCILAGO. G. ARABICI.

R G. arabici puly. unc. iv, solve in aq. purz bullient, unc, x, or an in the state of the

Oxymet faillt, Ph. Lond,

Philonium Londinen, Ph. Lond.

and of Party United Andrews

ving the landary discount of the language speed

Pilulæ fætidæ.

R Gum alafætid. myrrh, ana drachm.i. sapon. alb. hispan. drachm.ij. Tinct. fullginis q. s. Doss a gr. x. ad drachm. dimid. bis terve die.

ar one babble. Pilole goriac.

R Sapon, albi hispanici semunc. gum gualac, scrup. iv. syrup. q. s. Dosis a scrup. i. ad drachmam dimidiam bis terve die.

Pilula gummofa. Ph. Lond.

Pilulæ mercuriales.

R Argenti vivi semunc. extingue in balfam. copaiv. q. s. & adde pulv. glycyrrhiz. gum guaiac.

298

Salvide

guaiac, fingulorum, drachm, vi. fyrup. q. s. ut fiat massa. Dosis a scrup. is. ad drachmam dimidiam semel vel bis die.

> Pilulæ rufi. Ph. Lond, Pilulæ faponaceæ. Ph. Lond.

Pilulæ faponaceæ cum rheo.

R Sapon. alb. hispaniei, drachm. vi. pulv. rhei, drachm, ij. fyrup. facchari q. s. Dofis a scrup. i. ad scrup. ij. bis terve die.

nogal i migrafilulæ fcilliticæ,

R Pulv. glycyrhiz. rad. fcill. exficeat ana drachm, dimid, rad. zinziber. drachm. i. fapon. alb. hispan. drachm. ij. syrup. q. s. Dofis a gr. iv. ad. gr. xvit bis terve die. क्षांट. एएका एउडिए a green and be

be in ourse s Pilule flomachice,

R Pulv. canell. alb. drachm. ij. extract. rad. gentian. dr. i. mucilag. gum arabici q. s. Dofis a scrup. I. ad drachmam dimid. bis dieadde pro re nata rubigin. martis drachmam emerical decad with france extended in birning

Lary det & odde pole, glysyrisiz, gum

member de state de la constant de la

Pulvis aftringens.

R Pulv. canell, alb. rad. tormentill. fingulorum, drachm. i. M. Dofis a fcrup. i. ad drachm, i. 1904 and marks to to be

Pulvis aluminosus.

R Alumin. crud. terræ japonicæ ana partes æquales dofis a gr. viij. ad drachmam dimi-Pulv. contravery. come, Ph. Lond. maib

Palv. anodynus Doveri.

R Sal, nitri, tartari vitriolati fingulorum, unc. iv. in crucibulum candens injice, agitetur donec deflagratio & scintillatio definat, & adde opii concifi, unc. i. & in pulverem redige addendo tad. glycyrrhiz. ipecacoanhæ fubtiliffime pulver. ana, unc. i. & dein probe mifceantur omnia. Dosis a gr. x: ad ferup. ij. vel ad drachmam Inam georgifflers plora, Ph. Lond rables

Pulvis antimonialis.

R Pulv. e chel. cancror. drachm. x. tartari emetici, dr. i. M. fiat puly. subtilissimus. Dofis a gr, iij. ad gr. x. 4tz. vel 6ta. quaque hora.

Pulvis

Pulvio

Pulvis cardiacus.

R Pulv. canell. alb. drachm. i. rad. zedoariæ, drachm. ij. rad. ferpentar. drachm. i. M. dofis a ferup. i. ad drachm. i. 4^{tis}. vel 6^{tis}. horis.

Pulvis chamæmelinus.

R Pulv. flor. chamæmel. drachm iij. aluminis, g. myrrh. ana drachm. i. Dosis a scrup. i. ad scrup. ij.

Pulv. contrayerv. comp. Ph. Lond.

fi gond Pulv. contraverve cum mitro. mdonb

R Pulv. contrayery. comp. unc. iv. falls nitri, drachm. i. M. Dolle a ferup. i. ad drachm. i. 4tis, vel 6tis, horis, and contrall and a series of the contral and the contral

and on This Rulvis emeticus I state of the live

P. Pulv. ipecacoanhæ, scrup. i. tartar emetici, gr. ij. Doss a gr. xi. ad gr. xxii,

Hiera picra. Ph. Lond.

Pulv. Ipecacuanhæ cum opio.

R Pulv. rad. ipecacoan. gr. x. opii, gr. ij.
dofis a gr. iij. ad gr. xij.

Pulv.

Pulvise jalipio astrom ni orbi

drachm. ij. Dofis a ferup. i. ad ferup. ij.

Pulv. jalapii cum nitro.

R. Pulv. rad. jalep. drachm. iv. falis nitri drachm. im. Doss a scrup. i. ad scrup. ij.

Magnefia alba.

fabrilifamus.

SALES

Pole.

Pulv. nitrofus.

R Pulv. e chel. cancror. drachm. iij. nitri, drachm. i. M. Dolis a scrup. i. ad scrup. ij. vel ad drachmam. i.

en Pulv. nitrofus camphoratus.

R Pulv. nitros, scrup. ij. camphore, gr. v. M. Dons a scrup. ii. ad scrup. ij. ii.

Pulv. nitrofus cum gum guaiac.

R Sal. nitri, drachm. ij. gum guaiac. drachm. dimid. Doss a gr. v. ad drachm. dimid.

Pulv. plummeri.

R Calomel, fulph, aurat antimonii ana dr. ij.

tere

Doss a gr. ij. ad gr. x. vel ad scrup. im.

Pulvis ftanni. Ph. Lond.

Pulv. e spermat. ceti cum nitro.

Sal martani.

R Spermat. ceti, drachm. ij. facchar. albi fal. nitri ana uno. im. Dosis a scrup. dimid. ad drachmam i.

Pulv. e tragacanth. Ph. Lond.

R. Pulv. e chel. cancron, darchm. ij. nitri, drachm. ij. nitri, drachm. ij. nitri,

Spir. vitrioli fortis	PRÆPARATI	ONES
Spiritus nitri Spir. falis marini	Spir. vitrioli dulcis	Æth
Spiritus nitri	Spir, mitri dulcis	SI N

Acetum.

Spiritus aceti vel acetum distillatum.

Succus limonum.

Chrystalli tartari.

Sal. fedativus Hombergeri.

SALES

SALES ALCALINI.

Sal. absynthii

bi d

er.

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pro unit militationalist et debrial in situe or Sal, alcali mineral, seu soda, seu natrum.

Sal. volatilis c. cervi Sal. volatilis fal. ammoniaci.

Soletio, markely corrolly delitions. SALES NEUTRI.

SALES NEUTRI, qui funt ex ALEALT et ACIDO.

Sal. glauberi minerali Sal. am. vitrioli volatili

vitrioli.

·(4) Histories

Sal. nit: com. 1 Nit. cubicum Sal.am, nitrofum

vegetab. mineral. volatili.

Sal. digeft. fylvii marin. com. ammon.com

vegetabil. minerali . volatili

Sal. marini.

Sal. diureticus Tartar. tartar. Sal, citratus com. veget, abfynth. Sal. de seignette | minerali Spir. mindereri. | volatili

vegetab. veget. tartari

aceti. chryft. tartar. fucc. limonum. chryft tartar. acet. distillat.

the bally which has

Hi

Hi omnes sales neutri præparari possint pro usu medico admiscendo Alcali & acidum ad saturationem; alii vero in crystallos redacti, s. a. commodius circumseruntur pro usu militari; alii ut sale citratus commitet spiritus mindereri sacilius præparantur ad miscendo alcali & acidum ad saturationem pro re nata (b).

Solutio mercurii corrolivi fublimati.

R Mercur. corrofiv. sublimat. gr. vi. spir. vini gallici, unc. xii. M. fiat solutio. Dossa semunc ad unc. i. die.

(b) This Table of neutral Salts is nearly the fame as one I have feen, which was faid to be a Copy of that given yearly by Dr. Callen, Professor of Chymistry in the University of Edin-burgh, to his Pupils; and as that published by Dr. Vogel, in his Institutions Chymia, seek. 629. These neutral Salts are likewise taken Notice of by Marquer, in his Elemens de Chymie, and other late chymical Authors.

TINCTURE

D HEALS	ST ADITHEOUSE	things are a	DECREE OF HOLD	Charle .
N. P. S.	tura amara	according to make the same to	amel ha mel	acia
	cortici			200
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ह श्लेक्स	ferpen		ont white	giv
Berge	- thebai	CAST AND	METERTANE OF	1121

Tinctura rhei.

R Pulv. rad. rhei, unc. ij. semin. cardamom minor. decortic. semunc. vini alb. hisp. lib. ij. sp. vini gallici, unc. viij. digere sine calore & cola. Doss ab. unc. i. ad unc. iij.

Tinctura stomachica.

R Cort. canell. alb, femunc. cort. aurantior. unc. i. femin. cardam. minor. decort. drachm. ij. fpirit. vini gallici lib. ij. digere fine calore & cola. Dosis a semunc ad unc. i. bis terve die.—Adde pro re nata vin alb. hisp. lib. i.

X

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UNGUENTA.

Unguenta carulea vel mercurial. Ph. Lond. Unguentum fulphuratum. Ph. Lond.

The interior

I N A.

Vinum	amarum.	NATA CARLES
	antimoniale.	Pharm. Lond
13287	chalybeatum.	30 300

VITRUM CERATUM ANTIMONII.

riodr amfigir R. Pulte rad. risel, muc. i. femin. cardament

minor, decorie, femune, vini alb. hilp. lib. it. o vini gallici, nuc. viij. digete fine valore & Delie ab, une, it ad nee, il.

Thefura floreschice. Cort canell, sile lemme cart, aussation. and termin, earlier, whose desort deather. tiplest, vint goldlei lib. ij. digore fine calore. &c cold. Dolls a femune ad unci l, bis cerve die. -Adde pro refusta via alb. hifp. lib. i.

BUGUENTA

THAR MADE OF THE

inguents extules sel mercurial. Ph. 1.8.

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V. guer amaium BHT RO Pharm. Town

MEANS of Preserving the Health of Soldiers

AND

Conducting MILITARY HOSPITALS.

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Fears of Preidwing Aug Hall

of Soldiers on Service

A the of Professing the Health of Soldiers as Service,

His Life of Profession Soldiers as Service,
in Time of Vot, is to very deferent
from what they lead thing of Trace, as to
Subject them to mat 6 M. Conveniences and Didcafes.

Friedling of P. I.T. A. R. Los F. T. Merker in Towns of the words where they are under the Hye of the winders, who take Care that they keep there is a called season be entired in provided with Precedents, they he estimate in provided Houses on the Barracks, where they have a good. Bed, regular Meals of wholesome Providents and entiry unoff of the other Necessies of the

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Means of Preserving the Health of Soldiers on Service.

ter frigular of the season of or the base Ground, without even a Fenr to

HE Life of British Soldiers on Service, In Time of War, is so very different from what they lead in Time of Peace, as to subject them to many Inconveniences and Dif-Judes) and when dear as Edstay, cafes.

In Time of Peace, Soldiers are quartered either in Towns or Garrisons, where they are under the Eye of their Officers, who take Care that they keep then lives clean, and provided with Necessaries; they lie either in private Houses or in Barracks, where they have a good Bed, regular Meals of wholesome Provisions, and enjoy most of the other Necessaries of Life

X 3

Life in common with the lower Class of People, their Duty is easy, they mount Guard but fell dom, and in other Nights enjoy an undiffully ed Reft.

Whereas, during the Time of an active Campaign, they are feldom in Houses; they lie in Tents upon the Ground, which is often bare, and at best covered only with Straw and a Blanker, and fornetimes they are obliged, after fatiguing Marches in wet Weather, to lie on the bare Ground, without even a Tent to cover them; they must fund Centinel, and be upon Pikets and other Out-Posts in the Night, during all Kinds of Weather; befides performing long fatiguing Marches, and other military Duties; and when near an Enemy, they are perhaps on Duty every fecond or third Night, belides working Parties, and other Daties of Fatigue; and what Reft they have is interrupted by frequent Alarm They have often but little Time or Convenience to make themselves clean. Provisions are sometimes searce, and frequently on long Marches they have no Opportunity of dreffing what they can get: Water

Water is fometimes difficult to be come at, and what is to he got, is had. And it frequently happens, that neither Beer, Wine, nor Spirits, can be purchased for Money. In fixed Camps, they are often exposed to the putrid Effluvia of dead Bodies, of dead Horfes, and other Animals, and of the Privies and Dung of the Horses (a); and, in some Encampments, likewife to the unwholesome Vapours of marthy Ground, and of corrupt flagnating Water; All which, joined to the other Hardships and Inconveniences unavoidably attending a military Life in Time of Service, often give Rife to numerous Difeafes, which weaken an Army in a most surprising Manner; and therefore Commanders ought to use every Means in their

⁽a) In the Year 1760, the Men, who remained in the fixed Camp about Warbourg, were very unhealthy; while the Regiments who were detached to the Lover Rhine, under the Command of the Hereditary Prince of Brandwish entored punch better State of Health; and notwithflanding their great Fatigues, and the Lofs they fulfillined at the Affair of Kempen, were much honger when they rejoined the Army to go upon the Winter Emisdition into the Country of Heff, than those Regiments which had remained in the fixed Camp

Power, confistent with the necessary military Operations, to preserve the Health of the Sok diers.

Difeases are more or less frequent in Armies according as the Seafon is hot or cold, wet or dry; according to the Nature of the Climate. and the Time of the Year in which military Operations are carried on; the Nature of the Ground on which the Army is encamped, or the Situation of the Towns or Villages in which they are cantonned; the Cleanness, Neatness, and Dryness of the Camp, and of the Tents or Houses in which the Soldiers are longed; according as the Men are supplied with Provifione and good Water, good Beer, Wine, of other, fermented Liquore; of are well clouthed, and well furnished with Straw and Blankets; in proportion as the Duty is more or les fevere; and to the Care taken of fuch as are attacked with Bickness with podd pools i bed to be semile

Soldiers generally enjoy good Health in cold dry Weather, even during the Time of severe. Frost; if they be kept in Exercise, be well cloathed, and well supplied with Provisions and good

good Liquors, and with Wood; as the Troops, both in Germany and North America, experienced during the late War; but Cold joined to Moisture was observed always to be productive of Diseases.

Nor is mere Heat of itself such an Enemy to Health (5) as is generally apprehended; but when joined to Moisture, is observed to give Rise to the most satal Disorders in the warm Climates.

In our northern Climates the Winters are cold, and the Weather variable; fometimes it is cold and rainy, at other Times thick and foggy; fometimes we have fair Weather and Sunfhine, at other Times Proft and Snow; and fometimes it happens that we have all these different Sorts of Weather in the same Day. During this Scason, Soldiers are subject to Coughs, Pleurisies, Peripneumonies, Rheumstriffes, and other Disorders of the inflammatory

⁽b) This Dr. Pringle takes Notice of; and Mr. Nasfmith fays, he observed it in Voyages to the East Indies, which afford the fairest Trials of this Kind. See Dr. Lind's Essay on the Means of Preserving the Health of Seamen, 2d edit. 2002 to page 5.

Kind.

And where there is a Want of fresh Provisions, and they are obliged to live on salted Meat, and cannot have Greens, Pot Herbs, Roots, or other fresh Vegetables, nor be properly supplied with Beer, Cyder, Wine, or other generous fermented Liquors, they, as well as Sailors, are subject to the Sentry (r), especially if they be encamped or quartered in low damp Places;

The best Means of guarding against instammatory Disorders, and other Mischiess arising from Cold, whether in Camp or in Quarters, is, to take Care that the Soldiers be well cloathed; that they lie dry, and be well provided with Straw and Blankers, and with Wood; and to prevent, as much as possible,

and other Disorders of the inflammations

⁽c) Dr. Job. Volint. Willius, Army Physician to the King of Descript, in his Treatise on Camp Diseases, they, you scarce find a Camp in these northern Countries in which the true Scarcy, attended with stinking Breath and eroded Game, it not to be observed. Cap. iii. fea. iii.

their exposing themselves to sudden changes

In these northern Climates, it would be right, to allow every Soldier on Service a Flannel Waittoot, a Pair of worsted Gloves, and a warm woollen Stock, or a Neckcloth, to wear when on Dury in cold and wet Weather, as soon as the Winter begins to set in (d). Dr. Pringle mentions the Advantage the Troops received

(a) A Plannel Waificont, worked Gloves, and woolfen Stock, or a Neckeloth, may be purchased for about Half a Crown ser Man, and would contribute to preferve the Lives of many; the redructing of others, to Jupply whose Places, if they die, will can the Government a great deal more than the Price of the Articles mentioned; which for a Regiment of nine hundred Men, at the Rate of two Shillings and Six-Pence per Man, comes only to 112 h 101. per dim. Every Recruit lent from Righter to the Army in Gormany, coft the Government at leaft twenty Guinem before he joined his Regiment; and every in fent to the general Hospital, coft the Government at least fixteen Pence per Day, which is ten Pence above his Pay; fo that, If we foppose the extraordinary Cleathing here mentioned would preferve only the Lives of nine Men to each Regiment yearly, and keep forty in Health who would otherwise be fick, we fee what great Gainers the Government will be in Point of Money at the Year's End ; befides preferving the Lives

Centinels

from

Each Regiment ought to be provided with a Number of Watch Coats sufficient to serve the Centinels

Centinels who are to be on Camp Duty, or general Guards, in very cold and wet Weather. Some of the Regiments in Germany had fuch Coats, and found great Service from them.

In Winter Quarters, Soldiers are apt to make the Rooms in which they sit, and their Guard Rooms, as hot as possible; especially in Germany, where the Inhabitants use close Stoves, instead of open Fires; and continue in these warm Rooms till they are called out on Duty, when, by being exposed to sudden Cold, they are apt to be seized with Instammations of the Breast; and therefore Officers ought to examine carefully the Quarters and Guard Rooms allotted for their Men, and chuse them dry and comfortable, if possible (e); but never to allow

⁽e) Dr. Pringle has very justly observed, that upper Stories are preferable to Ground Floors; and that all uninhabited large damp Houses ought to be rejected. Observar on Distases of the Army, part is, chap. iii. sect. 2.

If Necessity obliges Officers to put up with such Places for their Men, Care ought to be taken to clean them well, and to air and dry them by Means of Fires, before the Soldiers go into them; and to supply well the Men who are to lodge in them with Straw and Blankets, and with Wood or Turf.

the Men to keep them as hot as Ovens, by Means of close Stoves, or other such Contrivances; but to depend more on good warm Cloathing, and dry Quarters, for guarding against Diseases, than upon artificial Heat. Many of the Regiments in Germany made the People in whose Houses their Men were quartered, take down their Stoves, and use only open Fires; when there was no Danger of the Soldiers making their Quarters too warm, as Wood was difficult to be got.

But although close Stoves are prejudicial in small Rooms, yet when a Town is much crowded, and Men are obliged to be lodged, in Winter, in large Barns or Churches, or other large open Places, the German Stoves may be used with great Advantage in airing and drying such Places, and keeping them of a moderate Heat; especially if there be a Place in them for an open Fire, or if they be of that Kind which the Germans call award Staves, which have a Door opening into the Chamber where the People are lodged; or if there be broken Windows, or any other Opening by which

which a free Circulation of Air can be kept up in the Men's Apartments.

In Winter, when the Weather is very cold or wet, a Glass of Brandy, or of the spirituous Tincture of the Bark, given to the Men as they went upon Duty, especially in the Night, has been found to be of great Use (f). Dr. Pringle has very justly observed, that the Times of standing Centinel, and being upon Out-posts, ought, if possible, to be shortened at such Seasons; and that Eires in the Rear of the Camp, for Men coming off Duty to warm and dry themselves at, were found to be of great Service.

(f) Dr. Pringle has taken Notice, that it would be a right Measure to make an Allowance of Spirits to the Infantry on Service; which certainly would be of great Use, and save many Mens Lives; and might be done at a small Expence to the Government, if properly managed; as it would only be requisite to make such an Allowance when the Troops are in the Field, and to such Men as mount Guard in cold wet Weather, or at Nights in Garrison Towns, during the Winter. If ever such an Allowance be made, what Spirits are given to the Men ought to be mixed with five or fix Times the Quantity of Water; except when Men are to stand Centinels, or to be upon Out-Boss, in a frosty Season, or in cold wet Weather; at which Time a small Glass of pure Spirits may be given them in Presence of the Officer or Serjeant of the Guard.

In Spring, and the latter End of Autumn, the Days are sometimes extremely hot, and the Nights cold and damp, and the Men exposed to these sudden Changes; at such Times, the Men who go upon Duty in the Night, ought to put on their Flannel Waistcoats, and be warmer cloathed than in the Day; and use many of the Precautions practised in Winter for the Preservation of their Health.

In North America, when the Men were in the Field in very hard frosty Weather, Fires were lighted at the Ends of the Tents, and Centinels set over them to prevent their doing Mischies; and both in Germany and North America, when the Troops were in the Field without Tents, they cut down Wood and made large Fires, and the Soldiers lay down and slept round these Fires, with their Feet next to them; and Fires were lighted at all Out-posts, where it could be done with Safety.

In Germany, when the Weather fet in rainy or cold towards the End of the Campaigns, and the Army was in a fixed Polition, his Serence Highness Prince Ferdinand constantly ordered

the

the Army to Hutt; which was done either by thatching their Tents, or building Hurdles, or digging Pitte, and covering and thatching them over. The Officers either built Hutts with Fire Places, or had Chimnies built to their Tents.

If, notwithstanding all Precautions, Men upon Out-posts should be benumbed with Cold, or Frost bit, as soon as they are brought into Camp or Quarters, their Extremities ought to be rubbed with Snow, or put into cold Water (g), and afterwards well dried, and wrapt up in Blankets, and warm mild Liquors given

to on abusinessia of the manager to and our (g) Hildanus relates a very remarkable Instance of the good Effects of this Treatment. A Man was found quite fliff and frozes all over. He was put into cold Water, and immediately the icy Spicula were discharged from all Parts of his Body, so that he feemed covered with an icy Crust. He was then put into a warm Bed; and took a Cordial Draught, and a plentiful Sweat followed; after which he recovered with the Lott of the last Joints of his Kingers and Toes. De Gangrana, cap. niii. People who are benumbed with Cold in frosty Weather ought never to be brought immediately near a Fire; for that has been found either to canje immediate Death or Gangrenes of the Extremities; and even Apples and other Fruits which have been frozen, if brought immediately near a Fire, turn foft and rot; but if put into cold Water, throw out the icy Spicula, and recover, fo as to be almost as good as before they were frozen. them

them to drink, and afterwards Cordials; and, after some Time, they may be brought near the Fire, or put to Bed. Dr. Lind (b) mentions one Caution to be used when Men are found in this Condition; which is, not to give them immediately strong spirituous Liquors, for that those often prove instantaneously fatal; but to put them to Bed, and give warm Water Gruel, or some other mild diluting Liquor, to drink; after which, he says, a Glass of Spirits will prove less dangerous and more beneficial.

When Men are quartered or cantonned in Towns or Villages, whose Situation is low and damp, and where fresh Meat and Vegetables are scarce in Winter, and the Scurvy frequent among the lower Class of People; Commanding Officers, at the Approach of Winter, ought to use their Endeavours to provide a Store of Potatoes, Onions, Cabbages, sour Crout; of pickled Cabbages, and other pickled Vegetables; of Apples and other Fruits, preserved in different Forms, to be laid up, and fold out to

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⁽b) Means of Preserving the Health of Seamen, 2d edition, page 19.

the Men at a cheap Rate during the Winter. They thould contract, if possible, with Butchers to surnish the Men with fresh Meat (i), and endeavour to procure good small Beer, or Cyder or Wine in the Wine or Cyder Countries; or Spirits to be mixed with Water, and a small Proportion of Cream of Tartar or Vinegar; or some other wholesome fermented Liquor for their Drink (k); and to put their Men into as dry comfortable Quarters as possible.

In Times of War, when Men are sent upon Expeditions into warm Climates, great Care ought to be taken to embark such only as are in good Health; particular Regard ought to be paid to those who are picked up in the Streets, or have been taken out of the Savoy, or other

⁽i) The Regiments in Germany who kept their Butchers in Winter, and made Stoppages of the Mens Pay, and obliged them to take a certain Quantity of Meat daily, were much more healthy than those who used no Precaution of this Kind:

⁽i) In Places where the Articles here mentioned are at too high a Price for a Soldier's Pay, a small Allowance, from the Government, of such Things would contribute much to the Preservation of the Mens Health in unwholesome Garrisons.

Jails. All dirty Rags from off such People ought to be thrown away or burnt; and the Men, after being well washed, and new cloathed, ought to be kept for a Fortnight or three Weeks in some Garrison Town, or with their Regiments, in open airy Places, that it may be afcertained that they have no infectious Disorder before they be put aboard the Transports.

All Ships allotted for Transports ought to be well aired and purified, and every Thing fitted up properly, before the Men are embarked. They ought to be provided with Ventilators, or Wind Sails, to make a free Circulation of Air through the Vessel (1); and they ought never to be crowded; but full Room allowed for each Man, in Proportion to the Length of the Voyage (m).

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⁽¹⁾ See Dr. Lind's Treatife on the Means of Preserving the Health of Seamen in the Royal Navy, where he takes Notice of most of the Articles here mentioned with regard to Transport Ships in treating of Ships of War.

⁽m) When Ships are too much crowded with Men, if they meet with a tedious Passage, and hot moist close Weather, they are often attacked with Diseases which prove very fatal. Dr. Lindi

In military Expeditions, Soldiers are put upon Ships Allowance; which, Dr. Lind very infly observes, ought not, in Voyages to the warm Climates, be made up fo much of falted Beef and falted Pork (which always tend to the Putrescent), as is the common Practice of the Navy; but that a greater Share of Biscuit, Flour, Oatmeal, Goarts, Rice, and other Stores of that Kind, ought to be laid in; and a greater Proportion of them, and a Less of the falted Meat, distributed among the Men: And he is certainly in the Right, when he fays, that a full Animal Diet, and tenacious Malt Liquors, are well adapted to the Constitution of our own, and of other northern Climates; and that Sailors who visit the Greenland Seas, and are Golden the services and British one Pint of O

Lind, talking of Ships of War, fays it is a Mistake destructive to the Men to crowd too many of them together in a southern Voyage, or in a hot Climate; as the Ship will be found, before the End of the Voyage, in more Distress for Want of Men, than she would have been, had she at first carried out only her proper Compliment. An additional Number is made, in order to supply an expected Mortality; but they generally increase that Mortality to double or triple their own Number, Ibid.

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remarkable for a voracious Appetite, and a strong Digestion of hard salted Meat, and the coarsest Fare, when sent to the West Indies, soon become sensible of a Decay of Appetite, and find a full gross salted Diet pernicious to Health. "Instinct (he says) has taught the "Natives between the Tropics to live chiefly "on a Vegetable Diet, of Grains, Roots, "and subacid Fruits, with Plenty of diluting "Liquors (n)."

A

(") The following is the Diet established for the Seamen of his Majesty's Navy.

Every Man is allowed a Pound of Biscuit, Averdupoiz Weight, and a Gallon of Beer, Wine Measure, per Day.

On Sunday and Thursday, one Pound of Pork, and Half a Pint of Peas, Winchester Measure.

On Monday, Wednesday, and Friday, one Pint of Oatmeal, two Ounces of Butter, and four Ounces of Cheese.

On Tuefday and Saturday two Pounds of Beef.

It is left to the Commanders of Squadrons to shorten the aforesaid Allowance of Provisions according to the Exigence of the Service, taking Care that the Men be punctually paid for the same. As it is thought for the Benefit of the Service to alter some of the foregoing Particulars of Provisions in Ships employed on foreign Voyages, it is to be observed, that

A Pint of Wine, or Half a Pint of Rum, Arrack, or Brandy, hold Proportion to a Gallon of Beer.

Four

A Store of Vegetables, such as Mustard Seed, Garlick, Onions, Potatoes, pickled Cabbages and other pickled Vegetables, sour Crout and other Things of that Kind, which can be purchased at a cheap Rate, and preserved for some Months, ought to be laid in , which may be mixed with the Soops prepared for the Men, or given them to eat along with their salted Provisions.

A Quantity of Beer, Cyder, or Wine, ought to be put aboard, and a certain Allowance distributed to each Man daily. When, for Want of these, Men are reduced to an Allowance of Spirits, they ought to be mixed with seven or eight Times the Quantity of Water, or

Four Pounds of Flour, or three Peunds of the fame with a Pound of Raifins, Half a Pound of Currans, or Half a Pound of Beef Suet pickled, are equal to a four Pound Piece of Beef, or two Pound Piece of Pork with Peas.

College and teller Filler and Venetice

Half a Pound of Rice is equal to a Pint of Oatmeal.

A Pint of Olive Oil is equal to a Pound of Butter, or two Pounds of Chefbire Cheefe.

And Two-thirds of a Pound of Cheshire Cheese is equal to a Pound of Suffolk.

If Soldiers are fent as Passengers on board of King's Ships, or on board of Transports, their Allowance is generally but Two-thirds of the above.

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shown

made into Punch, by the Mixture of Water and Molosses, and the Juice of Lemons, before they are given to the Men; and, if Lemons cannot be got, Cream of Tartar, or Vinegar, ought to supply their Place; and it ought to be a Duty of one of the military Officers on board to see the Punch made, and distributed among the Mendaily.

It would be right, on all Expeditions into warm Climates, to fend fome Sloops of War, or other armed Veffels, before the grand Fleet, to take up a Quantity of Wine that will keep, either at the Madeira, or other Wine Countries; and afterwards to go to any of our Settlements that are nearest the Place of Defination. and to take in a Quantity of Limes, Lemons, Oranges, and other Fruits, and Vegetables which will keep for fome little Time; and of Spirits, live Stock, and other Provisions proper for the Army; and then to meet the Fleet at the general Rendezvous. When once a Landing is made good, these Vessels, after having unloaded their Cargoes, may either be employed on other Services, or kept constantly going and coming for whatever Stores or Provifions are wanted for the Army or Fleet.

A fufficient

A sufficient Quantity of Vinegar ought to be put on board of each Transport, both for the Men to eat with their Victuals, and likewise for sumigating and washing between Decks occasionally. And a Quantity of Molosses, or coarse brown Sugar, and of Lemons, or their inspissated Juice, or Cream of Tastar, ought to be allowed for making the Punch, as well as for other Purposes.

If the Water become feetid, the Quantity to be used in the Day ought to be sweetened by Means of the Ventilator contribed by the ingenious Dr. Hales (a) for that Purpose.

The Men ought to be brought upon Deck, and Roll called two or three Times a Day; they should be made to comb their Hair, and wash their Hands and Face every Day, and to

the Percent Subsocial a than bar Provide memor.

shift

⁽a) This Ventilator is no more than a long Tube, with a Tin Box, about fix Inches wide and four high, with a Number of Holes at the Top, fixed at one End; and this Box is put down to the Bottom of the Water, and the Nose of a Pair of Bellows fixed to the other End of the Tube, which is above the Water; by working the Bellows, fresh Air is driven through the whole Body of Water, the putrid Essuvia are evaporated and dispersed, and the Water becomes sweet in a very short Time.

shift themselves sometimes, if possible; and in every respect keep themselves as clean as the Nature of the Service will admit; and proper Exercises should be contrived, to keep them in Health.

All the Parts of the Ship ought to be kept very neat and clean; and the Hold, and all between Decks, ought to be scraped and swept daily; and every Morning, in fair Weather, ought likewise to be washed, and afterwards sprinkled or washed with warm Vinegar, while the Men are upon Deck (p).

When the Weather will permit, Fires of dried Wood may be lighted in Iron Kettles between Decks, and Centinels fet over them, and the Fires sprinkled with Rosin or Bits of Rope dipt in Tar, or with some cheap Aromatic; and these Fires may be carried into all the Parts of the Ship that Safety will permit, in order to dry and purify the Air (q). After this

⁽p) This ought always to be done in the Morning, that all the Parts of the Ship may have Time to dry before the Men go to rest in their Births at Night; but it ought never to be done after Sun-set.

⁽⁹⁾ It has been proposed, that the Air in Ships of War should

this Operation all the Ports and Hatchways should be opened, and the Air in all the Parts of the Ship often renewed by working the Ventilators.

The Mens Hammocks and Beds ought to be brought up upon Deck in fair Weather, and well aired, and afterwards put in their Places, and Fires lighted below Decks.

When Troops, fent on an Expedition into warm Climates, arrive at the Place of their Destination, particular Care should be taken to guard them against the Diseases peculiar to such Climates, which are different from those common to our more northern Latitudes.

Dr. Lind says, that People coming first from a cold into a hot Climate are apt to have plethoric Symptoms; a Pain of the Head, Giddiness, a Sense of Weight, and Fulness of the Breast, and a slight Instammation of the tunica conjunctiva; and that some are apt to be seized with ardent Fevers and Diarrhoeas. And all Practitioners have observed, that New-Comers

be purified in this Way both by Dr. Lind and by Monf. de Ha-

into warm Climates are at first liable to Fevers tending to the Ardent, and are very subject to Fevers of the remitting and intermitting Kind, which are the Endemics of all warm Countries at certain Seasons of the Year; and after fome Time they are apt to fall into Fluxes, the Yellow Fever, and other Diseases depending on a putrescent State of the Juices. In military Expeditions these Disorders are liable to be complicated with Fevers of the Malignant or Hospital Kind, if Care is not taken to prevent it. And nothing has been found to be more productive of Diseases in those warm Climates, than indulging freely in the Use of Spirits and other frong fermented Liquors; expoling one's felf to the Damps, especially lying on the Ground after the Dews fall; and working hard, or using violent Exercise in the Heat of the Day, Hadran and Alberta

The best Preservatives against Diseases in warm Climates have been found to be,—
1. Temperance; a Diet of light and easy Digestion, composed more of vegetable than of animal Food; such as a small Portion of fresh Meat,

Meat, joined with a sufficient Quantity of Vegetables; Rice, Indian Corn, and other Grains, and Roots of various Kinds, prepared in different Forms; well baked Bread; the moderate Use of ripe Fruits; and the free Use of mild cooling fubacid Liquors, joined with a small Proportion of vinous or spirituous Liquors; carefully avoiding the too liberal Use of Wine, Spirits, or other strong fermented Liquors .-2. Great Care not to expose one's self to the Damps of the Night, nor lie down to sleep on the Grass, or in woody moist Places, in the Day; and to avoid all violent Exercise in the Heat of the Sun .- 3. Such Means as tend to support the Spirits; for Chearfulness has been observed to contribute as much to the Preservation of Health, as Fear and Dejection of Spirits to the Production of Diseases .- 4. Keeping the Body clean, and bathing frequently in the Sea, or in a River, in the Morning.

And therefore, in warm Climates, Officers ought to be particularly careful to keep their Men sober and temperate; to procure them good Bread, and Plenty of Vegetables and fresh Meat,

Meat, if possible; and where no other but falted Meat can be got, to make them boil a fmall Proportion of it in their Camp Kettles, along with Onlons, Goarts, Rice, Carrots, Turnips, Greens, or any other wholesome Roots of Herbs which the Country affords, or they can get, and of these to prepare a good wholesome Soop for themselves; and where there is Plenty of the ripe acescent Fruits, which are reckoned wholesome, to distribute a moderate Quantity among the Soldiers daily, which will both help to preserve their Health, and prevent them from privately stealing and eating large Quantities to the Prejudice of their Health .- To encourage their Men, and keep up their Spirits.

They should also prevent, as much as possible, the too free Use of Wine, Spirits, or other frong fermented Liquors; and in Wine Countries give every Man a daily Allowance of Wine, to be mixed with Water for his common Drink; and in Countries where nothing but Spirits can be got, make the Spirit be mixed with Water, or made into a very weak Punch, before it is given to the Men, as Lemons, Oranges,

Limes,

Limes, and other Fruits proper for this Purpole, are generally to be had in most warm Countries.

They should be careful not to march their Men in the Heat of the Day, nor order them upon Duty where they must stand exposed to the Dews and Damps of the Night, unless where the military Operations absolutely require it.

They should endeavour to make the Bottom of the Tents be covered with Straw, or dried Leaves of Trees, or dried Reeds, and with Blankets (r), for the Men to lie upon.

The Time of standing Centinel, and being upon Out-posts, if possible, should be short, where Men are exposed to the scorching Heat of the Sun; and when Men are upon Out-posts in the Night, it should be recommended to them to lie down on the Ground as little as possible; and if they do it, to chuse a dry

Place;

⁽r) A sufficient Store of Blankets has often been neglected to be carried out in Expeditions into warm Climates; but Blankets are no-where more necessary, as it is very prejudicial to the Health of Soldiers to be obliged to lie down on the bare Ground; and Straw, dried Reeds, and other such Things, are often difficult to be got in the warm Climates.

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Place; and, where it can be done, to have it covered with Straw or a Blanket, and to have fome light Covering to defend them from the Dews.

The Tents should be covered with Boughs of Trees, and the Men should be ordered sometimes to strike them in the Middle of the Day, and air well every Thing within them.

The Men should be obliged to keep themselves neat and clean; to comb their Hair, and
change their Linen often; and if the Camp be
near the Sea, or a large River, they ought to bathe
themselves as often as the Nature of the Service
will permit. However the following Caution,
mentioned by Dr. Lind, ought to be observed,
which is, not to go into the cold Bath when
overheated with Work or Liquor, or when the
Stomach is full, or when a critical Eruption,
called the prickly Heat, appears on the
Skin (s).

When

the second section and sense between the best of the

⁽¹⁾ Dr. Lind says, the Use of the cold Bath, either in Tubs under the Forecastle, or to dip in the Sea early in the Morning, has been found extremely beneficial in warm Weather and hot Countries; and that he can affirm, from his own Experience in hot

When Men are feized with inflammatory Symptoms on entering into warm Climates, they may be blooded freely: Afterwards they do not eafily bear fuch copious Evacuations, but rather require to have them made in smaller Quantities, and very early and frequent, as Inflammations make a rapid Progress in warm Countries. Dr. Lind fays, many Practitioners disapprove of Blood-letting in the Countries lying under the Torrid Zone, on a Supposition that the Blood is too much diffolved; but he thinks that this Rule will admit of many Exceptions; and that Sailors (and consequently Soldiers), being strong and robust, and exposed to greater Viciflitudes of Heat and Cold, and more Excesses, and other Accidents in general, bear freer Bleeding than any other Set of People. thousands I done by degree to be a distributed to be to be to

hot Climates, that many Diarrhoeas and other Complaints, the pure and fole Effect of an unusual and great Heat (relaxing the System of the Solids, and occasioning a Colliquation of the Animal Juices), have not only been cured by cold Bathing; but their Return, and even the Attack of such Diseases, effectually prevented by it. Ibid. p. 44, &c.

After

After some Time, the Diseases in these warm Climates tend to the putrid Kind, and must be treated as such

Care ought to be taken in chufing the Ground on which Men are to encamp. Dry high Grounds, exposed to the Winds, where there is a free Current of Air, and which lie at a Distance from Marshes, stagnating Water, and large Woods, are generally healthful in very different Climates (t). But Places situated low, where, on digging two or three Feet below the Surface of the Earth, you come to Water (u), and marshy Grounds, and Places surrounded with corrupt stagnating Water, are almost always the contrary, and very unhealth-

(a) Ground may seem very dry and healthful, and yet be quite the contrary, as Dr. Pringle remarks is the Case in the Neighbourhood of Bois le Duc, in Flanders, where Water is found every-where at the Depth of two or three Feet from the

Surface.

Alice

⁽t) Mr. du Hamel says, that the Air of the Island of S. Domingo is very fatal to Europeans; but it is observed that those People who inhabit the rising Grounds are much less exposed to Diseases than those who live in the Vallies. Sur la fanti du Equipages, art. 1. p. 16.

ful yes are often those Grounds which are subject to be overflowed by large Rivers, and low Places covered with Wood, where there is no free Circulation of Air. However, it ought to be observed, that it is not the Neighbourhood of Water alone which is prejudicial, but the watery Vapours which keep the Air perpetually moit, and the Exhalations of corrupt Efflivia, which render fuch Places unwholesome; for the Neighbourhood of Rivers, and of the See, where the Tide ebbs and flows freely, has no fuch Effect, where the Situation is dry and girve and those very unheakhy marshy Grounds often continue healthy in cold Westher, when their Waters are refreshed with Rains (w), and little or no moist putrid Exhalations rife from them; though, as Dr. Pringle observes, in Summer and Autumn, when their Waters begin to corrupt, and the Exhalation is firong, they are always exposed to Diseases;

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and

⁽w) Mr. de Hamel remarks, that Places which were formerly very subject to Diseases have become healthful when the Water which surrounded them was refreshed by opening a Communication with the Sea. Ibid. art. 1. p. 18.

and it is for this Reason that such Places are

Hence, where the military Operations will permit, Commanders, if possible, ought to chuse a dry Ground, whose Situation is high, and which admits a free Current of Air, such as on the Banks of Rivers, where there is generally a Stream of fresh Air, and Plenty of fresh Water to supply the Camp (x); taking Care to avoid the Neighbourhood of low marshy Grounds, and corrupt stagnating Waters, especially in Summer, and in hot Climates.

When Necessity obliges Commanders to take Post, or encamp in a wet or marshy Ground, they should endeavour to make it as dry as possible, by ordering Trenches to be cut for

Drains

⁽x) Dr. Pringle observes, that where Grounds are equally dry, that the Camps are always most healthful on the Banks of large Rivers; because in the hot Season Situations of this Kind have a Stream of fresh Air from the Water, tending to carry off both the moist and putrid Exhalations.—And in Cantonments we are not only to seek Villages removed from marshy Grounds, but such as are least choaked with Plantations, and stand highest above subterraneous Water. See his Observat. on Diseases of the Army, 3d edit. p. 99.

Drains across the Field and round the Mens Tents; to see that the Ground within the Tents be well covered with Straw; to order the Tents to be struck at Mid-Day, in dry warm Weather, and the Men to dry and air the Straw, and change it frequently; to have a proper Supply of Blankets for the Men, and to take Care that they be well cloathed, especially those who go upon Duty in the Nights; and, in the northern Climates, to have Fires in proper Places for warming the Men and drying their Cloaths, and for correcting the Dampness of the Air (y).

In Countries lying under the Torrid Zone, the Parts near the Sea Shore are often marthy,

(y) The Negroes on the Coast of Guinea, and some of the Indians, both of whom sleep on the Ground, have constantly a Fire producing a little Smoak burning in the Hutts where they sleep, which corrects the Moisture of the Night, and renders the Damp of the Earth less noxious; and during the Time of the very unwholesome Fogs on the Coast of Guinea, called Harmattans, which lay waste whole Negroe Towns, the Smoak of Wood, of pitched Staves, and such Things, are found to be the best Correctors of this thick Air. See Dr. Lind's Means of preserving the Health of Seamen.

Ground,

or close and covered with Wood, or have swampy Beaches, and are very unwholesome; and therefore where Soldiers aboard of Transports keep their Health, Commanders ought to be very careful not to allow them to land, till they come to the Place of their Destination. Dr. Lind observes, that Men commonly live more healthy in warm Climates at Sea, where the Air is dry and serene, and the Heat moderated by refreshing Breezes, than when they arrive in Harbours, or get within Reach of the noxious Vapours which arise from many Parts of the Land (2).

When Necessity requires Parties to be landed for Wood or Water, or on other Duties, they should always be obliged to return and lie aboard at Night; and if that cannot be done, they should be cautioned to avoid lying down to sleep on the Grass, where the Air is fresh, or they are exposed to the Dews; and to pitch their Tents on a rising

Ground,

⁽x) Dr. Lind fays, that it is constantly observed in unhealthy Harbours, that the Boats Crews employed in wooding and watering the Chips, who are obliged to lie on Shore, suffer most. Ibid. p. 72.

Ground, covered with Straw or dried Reeds, and a Blanket; and to use the other Precautions necessary for encamping in these warm Climates; for where this Care has been neglected, the Consequences have frequently proved satal (a).

On unhealthful Coasts, the noxious Land Vapours often affect the Crews of Ships that run up into Rivers or Harbours, and cause great Sickness; and therefore in such Places Ships should anchor at as great a Distance from the Shore as can well be done, that they may be exposed to the Sea Breezes, and as much to

of the divider that things fail up the River when the Conf

(a) A very remarkable Inflance of this we have related by Dr. Lind. In the Year 1739, in Makin Harbour, a Party of Men were fent with the Coopers from Admiral Haddoll's Pleet to refit and fill the Water Cuffes, who, finding an artificial Cave dug out of a fost sandy Stone, put their budding into it; every one who slept in this damp Place was infected with the Tertian Fever, then epitlemic in Misorea, and not one in eight recovered. At the same Time the Men aboard the Ships continued healthy; and others, who were afterwards fent on the same Duty, enjoyed perfect Health by being obliged to sleep in their respective Ships. He says, he has known a whole Boar's Crew seized next Morning with bad Fevers by sleeping near the Mangroves, with which the Sides of the Rivers are frequently planted in the Torrid Zone. Ibid. p. \$\pm\$1, 75.

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the Windward of the Woods and Manhes as possible; and if the Anchorage is fafe, one should prefer the open Sea to running up into Rivers or Creeks (b).

Cleanness and Neatness in the Camp is and other Article that ought to be particularly regarded. Portius, Ramazini, and most other Authors who treat of Camp Difeases, attribute those of the putrid Kind in a great Measure to the Stench and putrid Effluvia arising from the Excrements of Men and Beafts, and from the dead Bodies of Men, Horses, and other Ani-

(b) The higher that Ships fail up the Rivers upon the Coast of Guinea, the more fickly they become: Such, however, as keep at Sea beyond the Reach of the Land Breezes (that is, two or three Leagues at Sea), are for the most part healthy. Lind, ibid. p. 65. The Malignity of these Land Vapours often does not extend itself to any confiderable Diffance, as we know by manifold Experience. The Troops in Zealand were very unhealthy when Admiral Miichel's Squadron, which lay but a little Way from the Shore, enjoyed perfect Health .- Dr. Pringle's Observat on the Diseases of the Army, p. 1. chap, vii In July and August 1744, two Ships, belonging to Admiral Long's Squadron in the Mediterranean, lying near the Mouth of the River Tyber, began to be affected, while others, though at a very fmall Diffance, but further out at Seay had not a Man fick. Lind, ibid. p. 66. or Sales . see a brief I de se hala color was enter the same of the arms and a male,

male, lying unburied in the Neighbourhood of Camps, and have in a particular Manner mentioned the Necessity of burying such putrid Sabs flances. Dr. Pringle has very juilly recommended the Digging of Deep Pits for Privies in Camp, and covering the Excrements with Earth daily (c) till the Pits are near full, and then to fill them up with Earth, and dig new ones and to punish every Person who shall ease himfelf any where in Camp but in the Poivies : And he remarks, that when the Camp begins to turn unhealthy, that often the only Means that will preserve the Health of the Men, is to change the Ground, and to leave behind all the Filth and Nastiness which gave Rife to those putrid Diforders.

In fixed Camps, the striking the Tents at

⁽c) The divine Lawgiver Moses has enjoined Cleanlines in the Camp to the Jews in a particular Manner, when he says,

[&]quot;Thou shalt have a Place also without the Camp, whither thou shalt go forth abroad; and thou shalt have a Paddle poon thy Weapon, and it shall be when thou wilt case thy self abroad thou shalt dig therewith, and shalt turn back and cover that which cometh from thee. For the Lord thy God walketh in the Midst of thy Camp; therefore shall thy "Camp be holy, that he see no unclean Thing in thee, and turn away from thee." Deuteronomy, chap. xxiii. verses 12, 13, 14.

Mid-Day in fair Weather, and turning and airing the Strew, and changing it often, as remomended by Dr. Pringle, will contribute much to preferve the Health of the Men; and making the Men wash themselves daily, and change their Linen often, and keep themselves otherwise clean, ought never to be omitted by the Officers.

All military Authors have recommended to Commanders always to have Straw for their Men when they come to their Ground, if possible; and to have the Army well supplied with Provisions; giving proper Encouragement to the Country People, and to Sutters and Merchants of all Sorts, to bring in every Kind of Provisions and other Necessaries to Camp; and preventing, as much as possible, the Soldiers from moroding. And the Commanders of every Corps ought to take Care that their Men form themselves into Messes, and that Stoppages be made for buying them Provisions.

In Germany every Regiment of the British
Troops contracted with a Butcher, who was
obliged to carry along with them, at all Times,
a certain

a certain Number of live Sheep and Oxen to kill when wanted, and to fell the Meat at a fixed Price. Every Soldier was obliged to take a certain Quantity, which was paid for by Stoppages made in his Pay; and this Meat was boiled in the Camp Kettles, with fuch Roots and Greens as could be got; by which Means the Men, whenever they could use their Kettles, had always a good warm Soop, as well as Meat, to refresh them after their Fatigues, which, along with their Ammunition Bread, made a good wholesome Food.

In Countries where Fruit is plentiful, a certain Quantity of what is fully ripe, distributed to the Men in warm Weather, and in hot Climates, will contribute to preserve their Health, though the Abuse of it will prove prejudicial; but unripe and acrid Fruits are always burtful (d).

Water

⁽d) The British Soldiers in German used sometimes to hurt their Health by eating great Quantities of raw untipe Apples, Plumbs, and other unripe Fruits; but the foreign Troops had a much better Method of using such Fruits: They commonly boiled or stewed them, and eat them with Bread, or with their Meat, which in a great Measure corrected their bad Qualities.

Water is another Article which Commanders endeavour to have their Camp well supplied with, and therefore they generally encamp near Rivers or Rivulets. Where the Stream is small, Care ought to be taken that its Course be not interrupted, and that no Filth or Nastiness, or any Thing that will spoil or corrupt the Water, be thrown into it.

When there are no Rivers or Rivelets near a Camp, and the Men are supplied from Wells, if the Water is not pure, very often the digging of deep Pits, and covering the Bottom and Sides with large Stones, and over these a Lay of Sand, Gravel, or Chalk, will make the Water pure in a few Hours.

In fixed Camps, where the Water is bad, Portius (r) proposes straining it thro' Sand, and has given Figures of Machines to be used for that Purpose; but the Method proposed by Dr. Lind is still more simple, which is, to get

The Orders in the French Camp, prohibiting the Men from eating unripe Fruit, were strictly complied with every-where in Germany during the late War.

in 1686, de Militis in castris sanitate tuenda, part. ii. cap. vi. In this Book we have many useful Things mentioned relative to the Health of Soldiers.

a broad

a broad Cask with one End struck out; then put a longer Cafk, with both Ends fruck out, in the Middle of it; fill the thort Calk onethird with Sand, and the inner longer Cafk above one-half; fill the Rest of the inner Cask with the Water, which will filter through the Sand, and rife above the Sand in the outer Calk, where it may be allowed to run off into Veffels placed to receive it, by Means of a Cock, put into the Side of the outer Cafk, fifteen or twenty Inches above the Level of the Sand

Where there are no fuch Conveniences for purifying the Water, what is used for Drink ought to be mixed with a small Proportion of Spirits, or Wine, or with Vinegar, or Cream of Tartar, when neither of the other two can be got a and if the Water be previously boiled, it will be so much the better,

In Expeditions into warm Countries, where fresh Water is difficult to be had, a few Stills, with a proper Apparatus, ought to be carried out; and after a Landing is made, the Stills ought to be fet to work for distilling fresh Water from Sea Water in the Manner mentioned begoings agaid I have many sixth of the

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to the Health of Soldiers

tioned by Dr. Lind (e), and although a fufficient Quantity cannot be distilled for ferving the whole Army, yet enough may be got in this Way for the Use of the Sickup who has

When Men are very warm, after long Marches, and other hard Duties, in Summer; Officers should endeavour to prevent their swallowing immediately great Quantities of cold Water, and persuade them to wait a little till they cool; and at such Times, if Spirits can be got easily, to order a small Quantity to be mixed with the Water in each Man's Canteen.

Though the Abuse of vinous and spirituous Liquors is very destructive to the Constitution, yet these same Liquors, given in Moderation to Soldiers on Service, during the Times of great Fatigues, are some of the best Preservatives of

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Health.

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⁽c) Dr. Lind relates a Number of Experiments of his having diffilled Sea Water in different Manners, as recommended by others; and concludes, that the best Way of getting fresh Water from Salt, is to distil the Sea Water by itself, without any Mixture; and he proposes having a Still Head to the Coppers or Iron Pots in which the Meat is dressed aboard a Ship. Ibid.

Health Spirits, for common Ule, ought to be mixed with Water; and in the bet Climates made into Punch , though in very cold and wet Weather, and in damp Nights, a Glass of pure Spirits, given to the Men going on Duty, is of great Service; for it is always observed, that Men are much less apt to catch Difcases from being wet when they are upon a March, or at hard Work, than when they Rand Centinels, or are upon Out-Posts where they move but little, or when they lie down in their wet Cloaths; and that they are less liable to be affected by the Weather after a hearty Meal, or drinking a Glass of Spirits, or some generous Liquer, than when their Stomachs are verther seme a chean. By simil Meanytoms

An Infusion of Bark or other Bitters, and of Garlick, in Spirits, has been found to encrease their Efficacy as Preservatives both against the Effects of Cold and malignant Distempers. Dr. Lind has recommended an Infusion of Garlick in Spirits as one of the best Stomachics and Diaphoretics he knows in cold wet Weather. And many have recommended a Tincture of the Bark

Barle (f) : Towards the End of the Year 1743 Mr. Tough, one of the Apothecaries to the British military Hospital in the late War, then a Mate to a marching Regiment was ordered to go down the Rbine with a Party of Sick, who had the Seeds of the Hospital Fever among them, in Bilanders, from Germany to Flanders. Having had a Cask or two of Brandy put aboard as Part of the Stores for the Sick, he was afraid left the Men should make too free with the Spirite; to prevent which he threw in a Quantity of Bark into each Cafk, and give the Men regularly, Morning and Evening, a Glass of this bitter Tincture of At the fame Time, the Men were kept extremely clean. By these Means mest An Infufion of Bark or other Bitters, and or

(/) During the Campaign in Hungary, in the Year 1717, Count Beneval preserved both himself and Family from Diforders, by taking himfelf, and making all his Domenicks take, two or three Times a Day, a small Quantity of Brandy, in which Bark had been infused, at a Time when all the Reft of the Army were infected with malignant Diforders. A Regiment in Italy continued healthy by the Use of the Bark, when the Rell of the Auftrian Army, who did not purine the fame Method, were greatly annoyed with Sickness. See Kramer. quoted by Dr. Lind. of of

of the Sick mended upon the Passage, without the least Appearance of the Malignant Fever again amongst them; whereas, Dr. Pringle, who takes Notice of the other Parties who came from the same Hospitals in Germany, tells us, that the Malignant Fever broke out in a violent Degree, and Half the Number died by the Way, and several others soon after their Arrival (g).

Commanding Officers ought always to endeavour to proportion the Time the Men are to be upon Duty to the Weather and the Nature of the Climate. The Time of standing Centinel in very hard Frost, and in cold wet Weather, or in the Heat of the Day in Summer, when the Weather is very warm, and in hot Climates, ought to be shorter than when the Weather is dry and more temperate.

The Marches of Troops ought, if possible, during the Time of very hot Weather, to be made either very early in the Morning, in the Evening, or at Night; and Officers, during the

⁽g) Observat, part. i. chap. iii.

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Course of an active Campaign, ought to spare their Men as much as possible.

And when they are in Quarters, and have nothing to do, they should narrowly inspect into their Manner of living; and have them out daily, when the Weather will permit, and exercise them, or march them two or three English Miles a-Day, in order to prevent their falling sick for want of Exercise; for Soldiers left to themselves are very subject to Diseases when they come into Quarters after an active Campaign, by leading too indolent a Life, if Officers do not take Care to prevent it. However, at such Times, the Exercise ought to be moderate, and the Men should not be brought out in wet Weather.

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WHENEVER Men are seized with Distempers, they ought immmediately to be separated from those in Health, and either sent to the Regimental (a) or General Hospital.

There is no Part of the Service that requires more to be regarded than the Choice of proper

(a) Some of the regimental Surgeons in Germany, when they took the Field, had always fome spare Tents carried along with their Medicine Chests; and when any of their Men fell sick in Camp, and they could get no House for a regimental Hospital in Villages, they ordered these Tents to be pitched, and had the Ground within well covered with Straw and Blankets, and then put the Sick into them, and there took Care of them till they found an Opportunity of sending them to the Flying Hospital.

2 Places

Places for Hospitals, and the right Management of them, on which the Health and Strength of an Army often depends; for in wet unwholefome Seafons, if infectious Diforders get into the Hospitals, which possibly might have been prevented by proper Care, they often weaken an Army in a very thort Time far more than the Sword of the Enemy.

We have no Account of the particular Manner in which the Antients took Care of their Sick and Wounded in Times of War ; for although we read in Homer (b) of Surgeons or Physicians attending the Grecian Camp, and in Xenophon (c) of Cyrus's having appointed Physicians to his Army; and we learn from Tacitus (d) bas here is not serior the bervice that comines

(c) Vid. Xenophon. de Inflitut. Cyri. lib. i. et viii.

MATTER OF MATER (b) Homer mentions Podalirius and Machaon, fons of Efculapins, as two excellent Physicians or Surgeons in the Grecian Army. Vid. Iliad, lib. ii. Physic and Surgery were antiently exercised by the same Persons.

⁽d) Tacitus, after giving an Account of 50,000 People being killed by the Pall of an Amphitheatre at Fidena, during the Time of a Shew of Gladiators, has these Words: " Ceterum " post recentem cladem, patuere procesum domus, fomenta & " medici paffim præbiti; fuit urbs per illos dies, quanquam " mæsta facie veterum institutis similis, qui magna post prælia " faucios

and Livy (e), that the wounded Romans were received into the Houses of the Nebility, and had Physicians to attend them, and were furmiled with Fomentations and other proper Remedies; and from Juftin (f), that the Lacedemonians followed the fame Method: yet these Authors make no Mention of the particular Occonomy or Manner in which these Holpitals were conducted.

The Hospitals commonly wanted for an Army acting on the Continent, are,

1. One in the Rear, to follow their Motions, fo as to be always ready to receive the Sick from Camp, which is called the Moveable or Flying Hospital. 2. One or more, at some provided with a finall Cheft or Mediciosand

[&]quot; faucios largitione & cura fuftentabant." Vid. lib. iv. Annal.

⁽i) In Livy we find the following Passage: " Neque imme-4º mor ejus quod initio confulatus imbiberat, conciliandi ani-" mos plebis, faucios milites curandos dividit patribus. Fa-" biis plurimi dati, nec alibi majore cura habiti." Vil. lib. ii. cap. xlvil.

⁽f) Julin mentions the fame Thing of the Spartans after their Defeat at Sellafia-" Patentibus omnes domibus faucios "excipiebant, vulnera curabant, laplos reficiebant." Fid. of medical particular products, 2019, with 46. xxviii. cap. iv.

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Distance, in Towns, to teceive such of the Sick as can be moved from the Flying Hospi-M tal, when they are obliged to go from one of Place to another; or when a greater Number of Sick is sent to them than they can easily be take Care of (g).

Each of the Hospitals ought to be provided with Physicians, Surgeons Mates, Purveyors, or Commissaries, and others, to attend and take Care of the Sick.

Besides the physical People who attend the Hospital, one or two Physicians ought to go along with the Army to attend the Commander in Chief, and the General and Staff Officers, in Case of Sickness; and an Apothecary, provided with a small Chest of Medicines, ought to attend at Head Quarters to make up the Prescriptions of the Physicians.

(g) When Parties of Sick or Wounded are to be fent from, Camp, or from one Hospital to another, Care ought to be taken that they are placed properly in the Waggons; that they have proper physical People, Nurses, &c. to attend them; as well as Provisions, and other Necessaries, so as to be is no Danger of wanting any Thing while they are on their Journey.

SOME FILE

A Number of Hospital Surgeons also, with Mates, ought to attend the Army, to be ready in Case of an Action. These ought to be attached to the Suite of the Commanders of the different Gorps or Brigades, and to be quartered or encamped with them. And each Surgeon should be provided with a Waggon or some Horses loaded with a proper chirurgical Apparatus, as Instruments, Bandages, Lint, and other Things necessary for taking Care of the Wounded.

Rice, portable Soop, &c. and Utenfils for a small Hospital, and two, three, or four hundred sets of Bedding, should be carried about with the Army, in Case of an Action, for the Use of the Wounded, till they have Time to receive Assistance from the Flying Hospital, some of the Bedding ought to be carried on Horseback, so as to be at Hand when any of the Surgeons are sent with Detachments that are going upon an Attack.

To prevent crowding the General Hospitals in Winter Quarters, every Regiment ought to A a 4 take

Holpitals fitted up for them.

Dr. Pringle has laid down some very good Directions with regard to the Choice of Plates fit for Hospitals, and the Method of preventing infectious Disorders in them; and we find many excellent Hints of this Kind in Dr. Lind and Mons, du Hames's Treatises on the Means of Preserving the Health of Seamen, and some likewise in Dr. Brocklesby's late Treatise on military Disorders.

In the Time of Service the Commander in Chief generally orders the Hospitals to be established in Towns or Villages that least interfere with the military Operations, to which the Sick and Wounded can most easily be conveyed; and which he can best protect from the Insults of the Enemy (b).

In

⁽b) The Roman Generals feem to have fent their Sick and Wounded into Towns, in the same Manner as is done by those of the present Time. For we read in Cofar's Commentaries of this Method having been practised on more Occasions than one. In the fixty-second Chapter of the third Book, de Belle Civili, we have the following Passage; "Itaque nulla interpo-

1900in Towns, the Places fittest for Hospitals are public Buildings, which have large dry diry Apartments, funated on a high Ground, where there is a free Draught of Air, and a Comtoretond the Way dante Woulder Wants heatener

builty Winter, shafe Houses, which have open Fire Places in the Rooms; are always preferable to fuch as have close Stoves, or no Fire I the Mender weridge dearest conhecines bedefighe

"Hat mora, faucibrem modo & agrecum habita ratione, im-" pedimenta omnia filentio prima nocte ex castris Apolloniam " præmifit, ac conquiescere ante iter confectum vetuit. His " una legio milla presidio est."-And immediately after, in chap. Ixv. " Itaque prem'fie nunciis ad Ca. Domitium Cafar M feripfit, & guid fieri vellet oftendit : præfidioque Apellonia " cohortibus iv. Liffi i. tres Orici reliciis; quique erant ex "vulneribus ægri depolitis; per Epirum atque Arcarniam ites Tabere capitived and motion I project and alleged side.

And in the swentieth chapter, de Belle Africano, we read : "Labiene faucios fuos, quorum numerus maximus fuit, jubet

in plaustris deligatos Adrumentum deportari."

It would be a right Measure, in the Beginning of every War, to fettle by a Cartel that military Hospitals on both Sides should he confidered as Sanctuaties for the Sick, and mutually protected; as was agreed upon between the late Earl of Stairs, who commanded the British Troops, and the Duke de Nomilles, who commanded the French in the Campaign in Germany in the Year 1743. See Dr. Pringle's Preface. Place

Place at all; for an open Fire Place ferves to keep up a free Circulation of Air in a Room, as well as to keep it warm. And for the fame Reafon, where nothing but Stoves can be got to warm the Wards, the Wynd Stoves, which open into the Room or Ward, are vafily prefered able to the close ones.

Where there are no public Buildings, private of Houses answering nearest to the above Description are most proper for Hospitals. In general, Houses with small Rooms make but bad Hospitals; and very Damp and close Places ought by all Means to be avoided.

In Summer, when the Moveable or Flying Hospital is ordered into Villages, large Barns, and the largest airy Houses, are the best.

Churches, fituated on a dry high Ground, make good Summer Hospitals; and in Winter; when Necessity obliged us sometimes to use them in Germany for this Purpose, they were found to answer very well, when we had Bedsteads or Cradles for the Men to lie upon; and the Wynd Stoves to keep them of a moderate Heat.

In making Choice of Houses for Hospitals, particular Regard ought to be had to the Privies or Necessaries, because where their Smell is offenfive, there is always Danger of infections Diforders. If, therefore there be no proper Conveniencies of this Kind about an Hospital, such ought to be contrived for as to prevent any Danger from their putrid Efflovia. If there be a River near the Hospital, the Neceffaries may be made above it at a Place where there is a rapid Stream below. In Vil lages deep Pits may be dug in the Ground behind the Hospital, and Seats made over them, as in Camp; and a thick Lay of Earth be thrown above the Forces every Morning, till the Pits are near full, and then they must be filled up, and others dug to supply their Place.

When once the Places are fixed upon for Hospitals, every Ward ought to be made perfectly sweet and clean; first, by scraping and washing with Soap and Water, and afterwards with warm Vinegar; and then they ought to be sumigated with the Smoke of wetted Gunpowder and of Aromatics, and afterwards well-

dried

detell and aired by lighting Fires, and opening the Windows, before any Sick are admitted.

After this the Beds ought to be laid; in doing of which great Care fliould be taken not to growd the Wards too much, as nothing corrupts the Air fo much, or fo foon brings on infectious Diforders. Dr. Pringle lays, the Beds oughe to be laid to thin, that a Person whacquainted with the Danger of bad Air, might imagine there was Room for double or triple the Number. In high lofty Apartments, and in Churches, and other large Places, the Beds may be laid much closer together than in Rooms with low Ciclings. In Churches, or fuch Places, thirty-fix square Feet, or a Square of fix Feet by fix, may be allowed for each Man; but in common Wards we must allow from forty-two square Feet, i. e. fix by feven Feet, to fixty-four square Feet, or eight by eight, according to the Height of the Cicling, the Airyness of the Place, and the Nature of the Difeases of the Patients.

The Bedding most fit for Hospitals, is Palliasses and Bolsters filled with Straw, Sheets, and marib

and Blankets, as they can eafily be walked. Feather Beds and Matraffes are apt to retain Infection, and cannot be eafily cleaned. In the fixed Hospitals, Bedsteads or Cradles may be set up for laying the Bedding on: But in the Moveable or Flying Hospital the Bedding must be, for the most part, laid on the Flore.

When once the Beds are laid, and the Sick arrive, fome of the Gentlemen belonging to the physical Department ought to attend, to diffribute the Sick properly through the Hospitals.

Mounds, Ulcers, Sores, the Venereal Disease, &c. should be separated from the Rest, and put either into particular Wards by themselves, or into an Hospital fitted up for that Purpose under the Direction of the Surgeons.

Those labouring under infectious Fevers and Fluxes, should each of them be placed in good airy Wards by themselves, where the Beds are laid much thinner than in the other Wards of the Hospital. If the Flux Wards have a Privy near them, where the Men can ease them-

Every

felves, without being offentive either to their own Ward, or any other Part of the Hospital, they are fo much the fitter for fuch Patients. In the Hospital I attended at Bremen, the Flux Ward had a Necessary that opened into the River Weser, and at Natzungen a deep Pit was dug in the Field about twenty Yards from the Barn where the Flux Men lay, which kept thefe Wards always fweet.

Patients that have got the Itch, or any other infectious Distemper, ought likewise to be put into separate Wards by themselves; and at all Times a Place should be set apart for those who may be taken ill of the Measles or Small-Pox. A House separated from the other Hospitals, with a distinct Set of Nurses and other Attendants, bids fairest to prevent the Infection from foreading.

When once the Sick are properly ranged, the next Care must be to prevent infectious and malignant Diforders from being generated, and from spreading amongst the Sick; which is principally to be effected by keeping the Sick

and

and the Hospital extremely clean and wellaired, and the Wards as sweet, and free from putrid and offensive Smells, as possible.

Every fick Man, as foon as he arrives at an Hospital, should be washed with warm Water, or if there is a warm Bath, or bathing Tub, to be put into it; and afterwards be supplied with a clean Shirt (i) well-aired before he be put to Bed; and his own dirty Linen should be immediately carried to the Wash-House: And every Morning each Nurse ought to carry a Bucket sull of warm Water, and a Piece of Soap and a Towel, round to each of her Patients, and make them wash their Hands and Face, and their Feet, when dirty.

· Every Morning all the Wards ought to be feraped and swept, and afterwards sprinkled with warm Vinegar; and when dirty, they ought to be washed after the Fires are lighted.

⁽i) Every military Hospital ought to have a Number of Shirts belonging to it, for the Use of the Sick who arrive without having clean Linen with them. As soon as their own Shirts are washed and dried, or that new ones are provided by their Regiments, the Hospital Shirts ought to be taken from them.

Every Thing in the Wards, and about the Sick, should be kept as clean as possible; the Chamber-Pots and Close-Stools ought to be carried away as soon as used, and immediately emptied and washed before they be brought back.

The Windows of the Wards ought to be kept open to admit fresh Air Morning and Evening, for a longer or shorter Time, according as the Weather will permit.

If the Wards are close, and the Cicling too low, Dr. Pringle advises to remove some Part of them, and to open the Garret Story to the Tiles (k); and if the Opening of the Windows

or two square Holes (of about fix or eight, or ten Inches diameter), cut in the Cieling, and a Tube made of Wood steed to it, and carried up into the Chimney of the Ward above, so as to enter above the Grate, is one of the best Contrivances for procuring a free Circulation of Air; as the soul Air, which is lightest, and occupies the highest Part of the Ward, finds a free Exir by these Tubes: We have such Tubes now fixed in several of the Wards in St. George's Hospital. A Hole cut above the Door of the Ward, or in the upper Part of the Windows, and one of what are called the Chamber Ventilators fixed in it, will answer, where Holes cannot be conveniently cut in the Cieling.

is not sufficient to air the Wards, Ventilators of different Kinds, such as those mentioned by Dr. Hales and Dr. Reingle, may be used, especially when the Weather is hot.

In Winter, Fires should be lighted in all

the Wards where it can be done.

In foreign Countries, when we meet with Hospitals where there are no Places for open Fires, but only close Stoves, different Contrivances may be used to renew the Air. Ventilators of different Kinds may be used, or Openings made in the Doors and Windows. In Winter 1761-62, fome of the Wards in the Hospital at Bremen which I attended had fuch Stoves. In order to keep up a free Circulation of Air in those Wards, I directed large Holes to be cut in the lower Part of the Door in each Ward, and two Grooves to be made on the Outfide of the Door, above and below the Hole, parallel to each other, in which a Board flided; by means of which, the Hole could be either quite covered or only in Part, or left entirely open; and I directed a Casement, B bus sold sed raboutiw

about eight or nine Inches fquare; to be made in the upper Corner of each Window. After the Fires were lighted, upon removing) the Board which covered the Hole in the Door, and opening the little fquare Windows, a Current of fresh cool Air rushed into the Ward by the Door, while the heated foul Air found an Exit by the Windows. In very cold Weather, the Opening of the fmall Windows was fufficient; but in mild Weather, and in Summer, it was necessary to keep both open.

The Wards should be daily fumigated by Means of Aromatics, or wetted Gunpowder thrown on burning Coals, put in an Iron Pot or Chaffern, or with the Steams of warm Vinegar placed in the Middle of the Ward. Dr. Lind fays, that although Cleanliness and a pure Air contribute much to prevent infectious Diforders, or to check them, yet that they of themselves are not always sufficient; but that he feldom or never knew a proper Application of Fire and Smoke to be unsuccessful in producing the happy Consequence of effectually purifying PA.

Parifying all minud Places, Materials, and Sub-

In all Military Hospitals, at least in the fixed ones, one Wardt ought to be always kept empty; and whenever a malignant Fever, or anyother insectious Disorder, breaks out in any Ward, the Men ought to be removed into this empty one; and the foul Ward purified, by washing and cleaning it well with Soap and Water, and then with warm Vinegar; and afterwards purifying it with Smoke, in the same Manner as is practised in his Majesty's Ships of Wars, and Fires should be lighted daily, and the Windows kept open for some Time, before any Sick be again admitted into it.

(4) Dr. Lind tells us, that the Ships of War in his Majesty's Service are purished by Fire and Smoke, and gives the Process by which it is done; and he says, that he never heard of any Ship, which, after being carefully and properly smoked, did not immediately become healthy for the Men.—See First Paper on Fevers and Instalian.—And he observes, that these Steams and Smoke, which are inosfensive to the Lungs, besides correcting the bad Quality of the Air, produce another good Essect; which is, to make both the Patients and Nurses desirous of opening the Doors and Windows for the Admission of fresh Air. Ibid. p. 51.

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As

All the Linen of Patients in Fevers, Fluxes, and other infectious Diforders, ought to be changed often; and all the foul Linen and foul Bedding of the Hospital should be sincked with the Fumes of Brimstone, or of wetted Gunpowder, in a Place set apart for that Purpose; and Dr. Lind advises to steep them first in cold Water, or cold Soap Lees, before putting them in warm Water; as it is dangerous for any Person to receive the Steam that may at first arise, where this Precaution is not used.

All the Cloaths, of Soldiers who die in Hofpitals, ought to be fent to the Smoke House, and be well furnigated, and afterwards aired, before they are put up in the Store-House.

The next Thing to be considered about a Military Hospital is the Diet of the Patients, which should consist of good wholesome Provisions,

visions, that can be purchased easily, and at a cheap Rate (2) H

Good Bread (1) is a flanding Article of Provisions for an Hospital in all Countries and in all Climates; and a certain Quantity of it ought to be distributed to each Man daily.

The Breakfast and Supper in most Military Hospitals must be made of Water Gruel or Rice Gruel; as either Rice or Oatmeal can be got in most Places, and are very pertable.—Water Gruel is in general preserable to the Rice Gruel, because most Patients nauseate the Rice Gruel, after eating it for some Days, but not the Water Gruel, as every Person, who has attended the Military Hospitals, must have ex-

(2) The French, and many other Nations, give their Patients Mean Soaps in down Discases, and after capital Operations of Mean Soaps in down but little Bread or other Preparations of Vegenble Substances: But these Mear Soaps without Bread do not nourith the Patient sufficiently, and tend too much to the Puttescent; and this is one Reason why more Sick die in the French than in the British Hospitals.

of Flour ought to be carried out, and a Number of portable Ovens for baking bread for the Sick, which may be out up after the Troops have made good their Landing.

Bb3 perienced.

But although Rice Gruel is not to proper for constant Use, yet Rice should always make an Article among the Stores for an Hospital, as it is useful for making Rice Water for Drink; and it can be boiled or ground, and made into a light Pudding, and in short may be used in a Variety of Forms to make a good and whole-fome Food for the Sick.

Oatmeal is cheaper than Rice, and can be procured almost every-where in Europe, where Armies make Campaigns; as Oats make such a great Article in the Forage for Horses. And a sufficient Quantity can at any Time be ground into Meal for the Use of the Sick, at the Mills which are employed for making Flour for the Bakery, if there be none nearer the Holpital.

In Countries where neither Oatmeal nor Rice can be had, Indian or some other Corn, which is known to be wholesome, and which the Country affords, may be employed in their Place.

When

When fresh Meat can be got, the Men who are on full Diet, and the Nurses and other Servants about the Hospital, should have Meat for Dinner; and the Meat that is boiled for them ought to make Broth for the Sick who are kept on a low or middle Diet. Some Barley or Rice should be added to the Broth; and a small Quantity of Carrots, Turnips, or other. Vegetables, boiled along with them, will make it more agreeable to the Taste.

On Expeditions where nothing but salted Meat can be had, a Quantity of portable Soop should always be carried out for the Use of the Sick; which with Water and some Barley, and fresh Vegetables, when they can be got, will make a good Soop or Broth. On such Occasions, the Dinner ought to consist of Soop and Bread, or of light Puddings made of Flour or of Rice, of boiled Rice or Barley, or of Panado, &c.

Nurses and recovered Men may be allowed falted Meat twice or thrice a Week.

The common Drink of Military Hospitals ought to be Rice and Barley Water, with a B b 4 fmall

fmall Proportion of Spirits and Sugar, Small Beer is a good Drink where it can be easily procured; as is Wine and Water, or a very forall Negus, or very weak Punch in warm Climates is sill and droit siller by these ments

Besides this Diet, extraordinary Indulgences may be occasionally allowed to particular Patients, as Wine, Brandy, Sugar, Milk. And the Physicians and Surgeons ought to have a discretionary Power to order a Vegetable or any other proper Diet for Patients in the Scurvy, or any other particular Complaints. thould always be carried out for the Use of the

sad, treft, Vegetables, when they can be got, will make a good Soop or Dioth. On high Occasions, the Dianer organic confinct Soop and Bread, or of light Pradings made of Flour or of Rice, of boiled line on Barkey, or of Panado, Se.

od! Meat twice or thrice a Week.

The common Drink of Military Holpitals ought to be Rico and Barley Water, with a Bba Lismi

The Established Diet of a Military Hospital may be,

Carbinett	THE RESERVE THE PERSON HEREIN		
ur Maim		Dinner	Support
-aW dod	One Pint of Wa- ter or Rice Gruel.	Challes of the	Echipan
зэдээнүй	Water Gruel made	Author adspute	ter ficos
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-all plan	common Salt, and		
Juy. And	with or without a lit-	One Pound	As Break
Full Dies,	tle Sweet Oil, and two Spoonfuls of	of boiled fresh	As Break-
10,000 dail	Wines design act to a	we distorted	Verificate
ana Scur-	Rice Gruel made with two Ounces of	de grantene. A	Brancy
	Rice, one Spoonful	mit with 1981	190 Dept. 0
	of fine Flour, a little common Salt and Su-	nud shoots	
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Dance.	fire Lesonso Lauft	One Pint of	maple stanm
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	Ditto, or according	Panado, with	The same
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The	daily Allowance	of Bread to	be one
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The common Drink for those on full and middle Diet to be Rice or Barley Water, with two Spoonfuls of Brandy to each Pint, and a Quarter of an Ounce of Lump Sugar; small Beer, or very weak Punch; or Wine and Water, two Ounces of Wine to a Pint of Water, and a Quarter of an Ounce of Sugar. The Quantity not to exceed three Pints per Day. Those on low Diet to have Rice or Barley Water as above, with or without Wine or Brandy.

The Diet Boards hung up in the Hospitals may be made with the following Columns, nearly as they were with us in Germany:

adi	vile by	v mater	h	de line	or seller	mill "	W. 110
ments.	Mens Names	F.M.	الع	Pints.	Onnces.	Pinte.	Sugar. Ounces
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to es	MILES	1 17	113	NA PARTO	100 TO	3 D 100	HEQUA.
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When such Diet Boards and kept in an Hospital, and the Mens Names and Regiments are once wrote down, the Patients may with very little Trouble be put upon the full, middle, or low Diet, with so much of the above-mentioned Extraordinaries as may be judged proper.

If any Thing else be wanted for the Sick, the Physician ought to give a particular Order in Writing for it, the Columns here marked being only for such Things as are most free quently wanted.

It should be a general Rule in all Military Hospitals, that, when a Party of Sick arrives, every Man may have immediately a Mess of Water Gruel given him, and afterwards be put on low Diet till it is ordered otherwise by the Physician or Surgeon who attends him.

It is not to be supposed that the Diet here mentioned can be strictly kept to in all Parts of the World; for it must often be varied according to the Difference of the Climates, and to the Provision of the Countries where the Scene of War may be.

Whenever

Whenever a Moveable or Flying Hospital is to attend an Army, a Quantity of Bedding, and of all Utenfils for forming an Hospital, ought to be put up in the Waggons, together with Provisions of different Kinds, fuch as Oatmeal, Rice, Sago, Brandy, Wine, Sugar, &c. A Butcher with a Stock of five Cattle, and a Baker with a proper Quantity of Flour for making Bread ought constantly to attend; and a Number of empty Waggons should likewife be always in Readiness, to transport the Sick when the Hospital moves, or when a Party is to be fent to the fixed biofpitals, w

When Troops go upon an Expedition, befides the common Hospital Ships, another Ship ought to be properly fitted up for the Roception of fick Officers (m) gand every Holpital Ship ought to be supplied with all Sorts of mentioned can be findly know to in all was of

(a) If there he no Ship fitted up for the Reception of fick Officers, those who are taken ill on Expeditions must be in a most miserable Situation; as there is no Place to receive them in the common blospital Ships, they must remain almost without Affistance in a crowded Cabin amongst People in Health; as was the Cafe in some of our Expeditions during the late War.

W Masturg

Provisions, and other Necessaries fit for forming an Hospital, before they leave England.—And one or more armed Vessels loaded with Provisions, Wine, and all Sorts of Necessaries for the Sick, ought to attend them; or if the Expedition be intended for the warm Climates, these Vessels ought to go before the Fleet to take up Wine and Fruits, such as Lemons, Oranges, &c. Vegetables of different Kinds, and a live Stock for the Use of the Sick.

All Hospitals attending Expeditions should carry out among their Stores a Number of large Tents for lodging the Sick and Wounded immediately on making good their Landing. Where a Siege is expected which will take up Time, and where no Accommodations for the Sick can be had till the Siege is over, a Ship or two, with Boards, and other Necessaries for building large Sheds, or temporary Hutts, for the Sick, as proposed by Dr. Brocklessy, ought to go along with the Fleet, or meet them at the Place of their Destination. Such thatched Sheds, or Hutts, are very necessary in the warm Climates, as the perpendicular Rays of the Sun,

beating

beating upon Canvais, make Tents intolerably hot. When any of our own Settlements hap to be near the Place attacked, a fixed Hosp may be established there; either in Houses, if proper ones can be found; or in temporary Sheds or Hutts erected for that Purpose; and some Vessels, properly fitted up, may be kept going with the Sick and Wounded, and bringing back the recovered Men.

At every Military Hospital a Serjeant's Guard ought to mount, and Centinels be placed at the Doors of the Hospital, 1. To prevent all Visitors, who have not proper Leave, from coming into the Hospitals, as such People oftentimes crowd the Wards, disturb the Sick, and are apt to catch infectious Distempers, and to spread them among the Troops. 2. To take Care the Patients do not go out of the Hospital without having a Ticket (2) of Leave for that Purpose, signed by the Physician, Sur-

^(*) Acevery Hospital there ought to be a Number of printed Tickets lying ready to be filled up and figned by the Physicians and Surgeons, and no Man ought to be allowed to go out without a Ticket so figued.

geon, or Apothecary, belonging to the Hospital. 2. To prevent spirituous Liquors, or other Things of that Kind, being clandestinely carried into the Hospital, tasto ad term a quoli

The Serjeant of the Guard, attended by the Ward Master, ought, every Morning, to go round the Wards to call a Roll, and fee that every Man is in his Ward; and to do the fame at Night before the Hospital Doors are thut. and at this Time to order every Person out of the Hospital who does not belong to it. And the Serjeant, every Morning, ought to report to the Physician, Surgeon, or Apothecary, every Man's Name who was found to be absent at Roll-calling; and whether he found every Thing regular and in good Order in going his Rounds. 19001 to foreas them anson, the.

Every large Military Hospital ought to have one Head Nurse, and a sufficient Number of other Nurses, to attend and take Care of the Sick.

Orders to the following Purport, hung up in every Military Hospital, would ferve to shew the Nurses and Patients what their Duty is, 0.0000

and

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and to maintain Regularity and good Order through the whole Hofpitals and adversely and a Paults or Irregularities which are allowed.

Matron, or Head Nurfe.

Every Matron, or Head Nurse, is to go round all the Wards of the Hospital at least twice a Day, Morning and Evening; to see that the Nurses keep their Wards clean; that they behave themselves soberly and regularly, and give due Attendance to their Patients; and to examine the Diet of the Patients, and see that it is good and well dressed; and if the finds any Thing amis, to report the same to the Physician, Surgeon, or Apothecary, of the Hospital.

Common Nurses.

The Nurses are to give due Attendance to their Patients; and to keep them always as neat and clean, as the Nature of their Distempers will admit of; to give them their Diet regularly; to be particularly careful to see them take the Medicines ordered by the Physicians, according

according to the Directions given; to report to the Physician, Surgeon, or Apothecary, any Faults or Irregularities which any of their Patients may have committed; and to acquaint the Ward Master and Head Nurse of the Death of any of their Patients as soon as it happens, that proper Care may be taken of their Cloaths and Effects.

They are to keep their Wards extremely clean, to fprinkle them every Morning with Vinegar, and to fumigate them with the Smoke of wetted Gunpowder, or of Frankincense, or any other Aromatics that may be thought proper, in fair Weather to keep open the Windows of their Wards, twice or thrice a Day, for a longer or shorter Time, as the Weather will permit; to attend at the Steward's Room for the Provisions of the Patients at the Hours appointed for that Purpose; and to pay implicit Obedience to the Matron, or Head Nurse, in what relates to their Duty; and punctually to obey all Orders they receive from the Physician, Surgeon, or Apothecary, of the Hof-Bital Diet comment at the set of the child to letter

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afterwards discharged.

4. They are not to absent themselves from their Wards, unless when employed in the Difcharge of their Duty; nor to go out of the Hospital to which they belong, without having a Ticket of Leave figned by the Physician, Surgeon, Apothecary, or Head Nurse, belongeffective Atomstas th ing to the Hospital.

5. They are not to throw Nastiness of any Kind out at the Windows, but to carry it to the common Necessaries, and to empty the Chamber Pots and Close-stools as foon as used, and be careful to wash them before they bring them back.

6. They are not, upon any Pretence what-ever, to alter the Diet ordered by the Physicians or Surgeons to the Patients on the Diet Boards nor to fuffer their Patients to use any other Diet than what is allowed by the Holpital;

nor are they to bring, or allow others to bring, Meat, spirituous Liquors, or other Things of that Kind, into their Wards, except what is allowed by the Physicians or Surgeons. Whenever any Thing of this Kind is found in any of the Wards, it ought immediately to be thrown into the common Necessary; and if it be found in the Custody of a Nurse, she ought to be confined in the Guard, or discharged.

or of getting drunk and using their Patients ill, or of stealing, or concealing or taking away the Effects of Men who die in the Hospital, are to be immediately sent to the Guard, and reported to the Commanding Officer of the Place, that they may be tried by a Court-Martial, and be confined, whipped, or otherwise punished, as the military Law directs; all Followers of Armies on foreign Service being equally subject to the military Law as the Soldiers themselves.

Patients.

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litary Hospital, are to be washed all over with

warm Water, or to go into a warm Bath; and afterwards to wash their Face and Hands every Morning, and their Feet occasionally, with warm Water and Soap, brought round every Morning by the Nurses for that Purpose; and they ought to comb their Head every Day. If they be too weak to wash and comb themselves, it is to be done by their Nurses.

- 2. Every Patient is to be shaved and have clean Linen twice a Week, or oftener if requifite.
- 3. They are punctually to obey the Directions given them, and to take the Medicines ordered by the Physician, and none to be allowed to go out of the Hospital without a Ticket of Leave signed by the Physician, Surgeon, or Apothecary, of the Hospital.

4. They must commit no Disorder or Riot, but in all Respects behave themselves well.

5. If any Man disobeys the Orders he receives from the Physicians or Surgeons, or is irregular in Conduct, gets drunk, and commits Riots in the Hospital, or is found guilty of of Thest or other Crimes, the same is to be reported to the Commanding Officer of the Place, and he to be tried by a Court-Martial, and punished as soon as his Strength will permit.

In conducting the Military Hospitals, we found that it was always right to discharge the Patients from the fick Hospitals as soon as they were recovered, and to fend them either to Billet, or to a convalescent Hospital; because recovered Men are always the most riotous; besides they crowded the Hospitals, and were in Danger of catching fresh Disorders from those who were fick; and therefore the recovering Men in every Hospital ought to be reviewed once or twice a Week by the Physician or Surgeon, and the Names of such Men as are well enough, to be marked; in order that they may be fent the next Day to the conva-A Return of lescent Hospital, or to Billet. those marked for Billet ought immediately to be fent to the Officers on convalescent Duty.

When a convalescent Hospital is established, it ought to be put under proper Regula-

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tions; the following are those which I drew up for that established at Ofnabruck in April 1761, and which were found to answer the Purpose intended.

Regulations for a Convalescent Hospital.

1. That this Hospital be entirely occupied by such Men as are recovered from Diseases; that no Men be sent there but those whose Names are returned to the Purveyor's Office by the Physician or Surgeon of the Hospital.

2. That all the Patients shall be upon full Diet, unless in particular Cases it be ordered

otherwise by the Physician or Surgeon.

3. That all the Patients shall breakfast, dine, and sup, at regular stated Hours, in the Hall appointed for that Purpose: Breakfast to be ready at nine, Dinner at one, and Supper at seven o'Clock in the Evening.

4. That no Patient shall carry up any Victuals into the Wards appointed for sleeping in; and if any Patient does not attend at the regular Hours of Meals, no Allowance of Victuals

shall

shall be made him in the Place of such Meals, unless he has been absent on Hospital Business, or been confined to Bed by Sickness.

- 5. That as foon as the Men are come down Stairs to Breakfast, the Wards in which they sleep shall be cleaned out and sprinkled with Vinegar, and the Windows opened to air them.
- 6. That the Doors of this Hospital shall be locked every Night at eight o'Clock, and no Man be allowed to come in or go out after that Time. The Doors to be opened again at seven 'Clock in the Morning.
- 7. That the faid Hospital is to be visited two or three Times a Week by the Physician, Surgeon, and Apothecary, who are to see that the above Orders are complied with; to examine the Diet, and take Care that every Thing is carried on properly; and to prescribe for any little Disorders the Men may be affected with.
- 8. That one of the Hospital Mates be appointed to visit this Hospital daily, to administer any Medicines which may have been pre-C c 4 scribed

foribed by the Phylician; to apply any Dreffings ordered by the Surgeon; and to acquaint the Phylician or Surgeon if any of the Men be fo bad as to require their Attendance, or to be fent back again to the Sick Hospital.

lations, orderly Serjeants or Corporals be appointed for the Care of the Men; who shall mount a Guard of fix or more of such of the Patients of the said Hospital as are fit for this Duty—That the Serjeants are to call a Roll of all the Patients regularly three Times a Day; before Breakfast, Dinner, and Supper; to see that the Men behave themselves soberly and decently; and that they keep themselves clean, and commit no Riots; and to confine in the Guard such as commit Riots and other Irregularities, or whom they find drunk, or who stay out all Night; and to report the same to the Officer on Duty.

visit the said Hospital daily at the Times of Roll-calling, to see that every Thing be carried on properly; and to receive the Reports from the

the Serjeants, and give what Orders he may think proper for the better regulating the faid Hospital and to was a series as a base, and and

that there are more Convalescents than the Hospital can hold conveniently, a Revew be made of all the Patients, and the strongest and most healthy be sent to Billet.

any Party is going to join the Army, to pick out the Men who are fit to join their Regiments.

The Physical Officers employed in the Military Hospitals, are Physicians, Surgeons, and Apothecaries.

No Person ought to be appointed a Physician to the Army, or Military Hospitals, without previously undergoing the same Examination at the College of Physicians, as those do who enter Fellows and Licentiates of the College, that none but proper Persons may be employed. On such Examinations the Physician General to the Army ought to be allowed to sit as one of the Censors of the College.

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The Surgeons are all obliged to pass an Examination at Surgeons Hall before they are appointed, and the Apothecaries ought in like Manner to pass an Examination at Apothecaries Hall.

The Mates employed in the Service ought, previous to their Appointment, to be examined both in Surgery and Pharmacy, as the Service commonly requires their acting in both Branches.

The Direction of all Military Hospitals ought always to be committed to the Physicians, who have the immediate Care of Hospitals.

When an Army is acting on a Continent, and there is a Number of Hospitals in different Places, the Physician who attends the Commander in Chief ought to be made Physician General and Director of the Hospitals, with proper Appointments; and all Orders from Head Quarters ought to go immediately thro' this Channel.

Every other Physician at the different Hofpitals ought to direct every Thing about the Hospital

Holpital which he attends, and his Orders ought to be punctually obeyed; and he ought to keep up a constant Correspondence with the Physician General; acquainting him from Time to Time with the State of the Hospital, and what is wanted for it; and he ought pundually to obey whatever Orders he receives from the Physician General.

If there be feparate Hospitals for the Surgery Patients, the eldest Surgeon ought to direct every Thing in the Hospital he attends; and when any Thing is wanted for his Hospital, to report the fame to the Physician General.

The directing and purveying Branches ought never to be entrufted to the fame Person, as the Temptation of accumulating Wealth has at all Times, and in all Services, given Rife to the groffest Abuses, which have been a great Detriment to the Service, as well as to the poor wounded and fick Soldiers, and has occasioned the Lofs of many Lives. And therefore neither the Physician General, nor any of the Phyficians or Surgeons of the Army, or any other Person concerned in the Direction of the Miliunous :

or Commissary; nor ought they ever to have any Thing to do with the Accounts, Contracts, or any other Money Affairs relating to the Hospital; and if ever they be found to intermeddle in these Affairs, they ought to be immediately dismissed the Service.

The purveying or commissionate Branch ought to be entirely distinct from the physical. The Purveyors or Commissiones ought punctually to obey whatever Orders they receive from the Physicians or Surgeons; to provide every Thing for the Hospital; to keep regular Accounts of all the Men who come into, or go out of the Hospitals; and from Time to Time to make Returns to Head Quarters of all the Men in Hospitals; and their Accounts ought to be controuled by such Persons as the Government may think proper.

Hospital ought to visit the Sick at regular stated Hours, and the Mates to attend and go round with them, and receive and execute their Orders.

Every

Every Mate ought to have a certain Number of Patients allotted him, for whom he is to make up all Medicines, dress all Sores, and execute whatever Orders he receives from the Physician, Surgeon, or Apothecary. That the Mates may know and execute their Duty, proper Orders in Writing should be hung up in the Apothecaries Shop for that Purpose. The following are those which I gave out at all the Hospitals I attended in Germany.

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tuesty that every above make raps hemick also

That all the Gentlemen do attend at the Apothecaries Shop every Morning at eight o'Clock, to affift in making up the common Medicines of the Day, and afterwards to go round the Hospitals with the Physicians and Surgeons as bound by and afterwards to go

That every Mate have a Book for writing other Prescriptions of the Physicians in, which is to be kept in the following Order.—First, to mark the Patient's Name and Regiment; then the Day of his Entry into the Hospital

John Glarke, 20th Regiment, Jon. 1. Fevers

contrayers. 4" die.—2. Emplast vesicat. dorse, &c.

Discharged or dead Jan. 28.

3. That every Mate make up himself the Physician's Prescriptions for his own Patients, and afterwards go round and administer them, or give them to his Patients with proper Directions; that he bleed his own Patients, and dress any slight Sores they may have, which do not require their being sent to the Surgery Hospital

Patients in the Evening, to fee that every Thing is well conducted, and to report to the Physician or Apothecary if any Thing extra-ordinary happens.

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That two of the Mates attend all Day at the Apothecary's Shop to receive any Sick that may arrive, and to place them properly; to make up what Medicines they may immediately want; to order each of them a Mela of Water Gruel , and if any Thing extraordinary occurs, to fend an orderly Man to acquaint the Physician or Apothecary with the same. The orderly Mates to make up likewife for Officers, or others, all Prescriptions sent to the Apothecary's Shop through the Day and toq A ad I

A Joint of Meat roafted or boiled for Dinner, and a Bottle of Wine, was allowed to the orderly Mates, by Lord Granby's Order that they might not absent themselves from their Duty .- Minere there was Conveniency for it, Mate lodged in the Holpital.

The Apothecary ought to take Care of the Medicines; to go round the Hospitals in the Morning before the Time of the Phylician's visiting; to see that the Wards are in proper Order; that the Nurses and other Servants have done their Duty; to examine into the State of the Sick, and to fee that the Provisions Ded T

these Things to the Physician when he arrives.

To take Care that the Mates prepare in the Morning the Medicines that are commonly wanted for the Day; and the they afterwards make up faithfully the Prescriptions of the Physician; to go round the Hospital again in the Evening, to see that the Sick have got their Medicines regularly; and to make the same Enquiries as in the Morning.

The Apothecary should always be lodged near the Hospital, to assist in Case of any Accidents happening, or of Sick arriving at the Hospital, and the Hospital, and the Hospital, and the Hospital, and the Hospital and the Hospita

When there are any strong infectious Disorders in Military Hospitals, the physical Gentlemen may use the following Precautions to guard themselves against Infection.

Stomach; but to eat Breakfast before they go into the Hospital.

visiting the Hospital, and a waxed Linen Coat to wear above them in going round the Wards;

and as foon as they have come out of the Hofpital, to wash and change their Linen and.
Cloaths.

3. Before they go into the Wards, to order that they be well cleaned out, and sprinkled with Vinegar, and afterwards sumigated, and aired by opening the Windows, or by working the Ventilators.

4. If the Infection be very strong, to take a Glass of the spirituous Tincture of the Bark just before they go into the Hospital.

5. To put small Rolls of Lint, dipped in camphorated Spirits, up the Nostrils, and to direct a Vessel, with warm camphorated Vinegar, to be satried round, and held near the Patients they are examining.

6. In examining Patients affected with the Petechial Pever, or any other malignant Diftempers, to stand at some little Distance, and ask what Questions they may think proper; and when they come near, to feel the Pulse, and examine the Skin, not to inspire while their Head is near the Patient's Body; but after being fully satisfied in these Points, to reput Dd

be necessary doud required standard on seasons

It would be right to establish some military Rank for every commissioned Officer of the Hospital on Service, and to settle the same Subordination in the physical as in the military Department. By these Means, the Service would be carried on with greater Order, and more Advantage to the Sick.

And it would be right, in Times of War, to add a Clause in the Mutiny Bill, to allow any military Officer on convalescent Duty to call in the commissioned physical Offivers to affift in making up a Court-Martial, when there are not a fufficient Number of military Officers in a Place, to try convalescent Soldiers guilty of Crimes. For in Times of Service, very often a fufficient Number of military Officers cannot be spared to be on Duty at the different Military Hospitals; and at all fuch Places the Convalescents are generally very diforderly, when they know that there is not a fufficient Number of Officers to form a Court-Martial for punishing them. Where-בומובוב ever

officers, no physical Officer ought ever to be salled upon as a Member of a Court-Martial.

Men, in Time of Service, are often apt to faunter in and about Hospitals, and there learn all Manner of Debaucheries, and lose all Sense of Discipline; and therefore, to keep up Order and Decorum, there ought to be, at every Fixed and every large Military Hospital, a military Inspector or Commander, an Officer of known Activity and Probity; and a Number of Officers on convalescent Duty sufficient to form a Court-Martial whenever required.

The Dary of the Military Inspector, or Commander, should be, to take Care of all Convalescents on Biller; to see that the Officers under him do their Duty, and maintain the same Regularity and Discipline among the Men belonging to their respective Corps, as if they were with their Regiments; and that the Men attend the Parade and Roll-calling a and that they always appear neat and clean.

He ought, from Time to Time, to visit the Hospitals; to see if they are kept clean; to D d 2 enquire

enquire if the Men behave well, if the Diet is good, and the Officers, Nurfes, and Servants, do their Duty; and if he finds any Thing amifs, to report the fame to the Physicians and Surgeons of the Hospital, or to the Porveyor or Commissary, or others, under whose Department it may be, that the same may be immediately rectified; and if he finds that the superior Officers of the Hospital overlook such Abuses, notwithstanding his Representations, to report the same immediately to the Head Quarters.

He ought to order one of the Officers on convalencent Duty to vifit the Hospitals daily, to make the Enquiries above-mentioned, and to give him a Report of the same in Writing.

The Purveyor or Commissary gught to make a Return to him twice or thrice a Week of every Man admitted into, or discharged from, the Hospitals, or who dies in them; marking in the Return the Name of every Man, and the Company and Regiment he belongs to; that he may report the same to the Officers of the different Brigades or Regiments.

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o enquire

The Military Inspector ought to have the Power of providing Billets for all Officers and Soldiers about Hospitals; and the Names of all Men to be discharged from Hospitals should be sent to him the Day before they are discharged, that he may provide Billets for them; and next Day the Men ought to march from the Hospitals to the Parade, to receive their Billets, and the Orders of the Military Inspector, and of the Officers of the Corps they belong to.

The Military Inspector ought to see that the Arms of the sick Men, and the Arms and Cloaths of those who die and are lodged in the Magazines, be properly taken Care of; and that the Stores of the different Regiments be properly looked after.

As the Service often makes it necessary at Military Hospitals, where the Number of Sick is great, to employ the convalescent Soldiers (1)

Men who attend their Sick who belong to the Hospital, so that they have no Occasion to employ their Convalescents, as we are often obliged to do, where the Sick are attended by Nurses, who are commonly Soldiers Wives, and not so capable of doing such laborious Work to the Men.

as orderly Men and Servants about Hospitals, all Men thus employed ought to have a special Leave from the Military Inspector for so doing; and no Man should be employed in any Capacity as a Servant about an Hospital, who at that Time is on the Books as a Patient. And all Men employed about the Hospital ought to be reviewed once a Week by the Military Inspector, and likewise whenever a Party of Convalescents is going to join the Army, or their Regiments; that no Man may be allowed to remain with the Hospital, after he is fit to do Duty in his Regiment.

When the Military Inspector is absent, the eldest Officer on convalescent Duty ought to

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every Officer sent on convalescent Duty ought, as soon as he arrives at the Place where the Hospital is, to wait on the Commandant, or Military Inspector; to acquaint him of his Arrival, and to receive his Commands. He ought then to go to the Purveyor or Commissary's Office, to get a List of all the Soldiers who are in or about the Hospital, and belong to the

the Regiment or Brigade he is employed for, wherein those on Billet are diffinguished from those in Hospitals. The next Day he ought to parade all those marked on Billet, to see if the Number of Men agrees with the Lift given him, and to examine in what State each Man is, and how he is employed; and then he ought to go round the Hospitals, attended by an orderly Serjeant, to fee all the Men in the Hospitals, and to know if the Lift given him at the Purveyor's Office was right; and afterwards he ought to fend every Day a Serjeant or Corporal to see the Men in Hospitals, and to report to him when any Men are discharged or die.-And he ought to procure from the Military Inspector a Return of all the Men of his Corps, who are either admitted into, or difcharged from Hospitals, on the Days when fuch Returns are made. He ought to make all his Men on Billet appear regularly on the Parade at Roll-calling, and to oblige them to keep themselves clean and their Arms in good Order, and to endeavour to preserve the same Regularity and Discipline as when they are

with their Regiments. And whenever a Party is to be fent as join their Regiments, he ought to have all his Men particularly examined; and those Men who are found to be perfectly recovered, should be fent to their Regiments.

If every Officer on convalescent Duty conform to these Directions, no Man can ever be detained without his Knowledge in or about Hospitals, as he must always know where every Man is, in what state of Health, and how he is employed; and may at any Time be able to make a Return to the Brigade or Regiment for which he is employed, of every Man who is admitted, discharged, or dies in the Hospital.



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